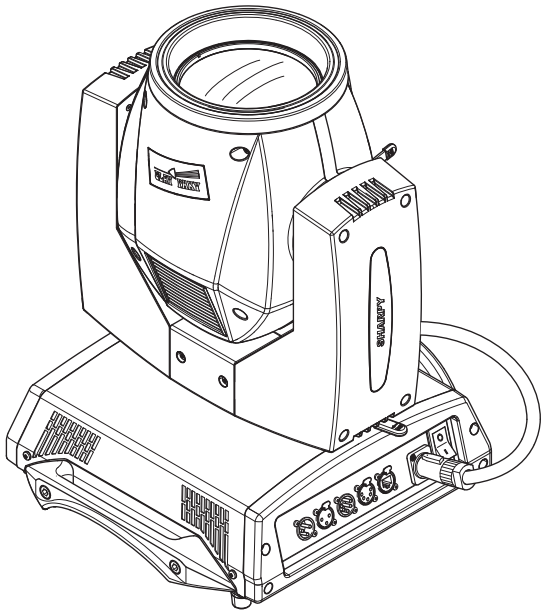
CLAY PAKY
AN OSRAM BUSINESS

SHARPY

C61375

INSTRUCTION MANUAL



INDEX	
Page	**Contents**
2	Safety information
12	Unpacking and preparation
13	Installation and start-up
14	Control panel
16	Menu setting
23	Maintenance
30	Optional accessories
31	Technical information
31	Cause and solution of problems
32	Channel functions

Congratulations on choosing a Clay Paky product!
We thank you for your custom.
Please note that this product, as all the others in the rich Clay Paky range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

Carefully read this instruction manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.

CLAY PAKY S.p.A. disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this instruction manual, which must always accompany the fitting.

CLAY PAKY S.p.A. reserves the right to modify the characteristics stated in this instruction manual at any time and without prior notice.

SAFETY INFORMATION

• Installation
Make sure all parts for fixing the projector are in a good state of repair.
Make sure the point of anchorage is stable before positioning the projector.
The safety chain must be properly hooked onto the fitting and secured to the framework, so that, if the primary support system fails, the fitting falls as little as possible.
If the safety chain gets used, it needs to be replaced with a genuine spare.

• MINIMUM DISTANCE OF ILLUMINATED OBJECTS
The projector needs to be positioned so that the objects hit by the beam of light are at least 12 metres (39'4") from the lens of the projector.

• Minimum distance from flammable materials
The projector must be positioned so that any flammable materials are at least 0.20 metres (8") from every point on the surface of the fitting.

• Mounting surfaces
It is permissible to mount the fitting on normally flammable surfaces.

t_a 40°C

• Maximum ambient temperature
Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C (104° F).

IP20

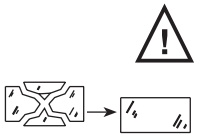
• IP20 protection rating
The fitting is protected against penetration by solid bodies of over 12mm (0.47") in diameter (first digit 2), but not against dripping water, rain, splashes or jets of water (second digit 0).

• Protection against electrical shock
Connection must be made to a power supply system fitted with efficient earthing (**Class I** appliance according to standard EN 60598-1).
It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

• Connection to mains supply
Connection to the electricity mains must be carried out by a qualified electrical installer.
Check that the mains frequency and voltage correspond to those for which the projector is designed as given on the electrical data label.
This label also gives the input power to which you need to refer to evaluate the maximum number of fittings to connect to the electricity line, in order to avoid overloading.

t_c 100°C

• Temperature of the external surface
The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 100°C (212°F).



• Maintenance
Before starting any maintenance work or cleaning the projector, cut off power from the mains supply.
After switching off, do not remove any parts of the fitting, to avoid getting burnt for at least 35 minutes. After this time the likelihood of the lamp exploding is virtually nill.
The fitting is designed to hold in any splinters produced by a lamp exploding. The lenses must be mounted and, if visibly damaged, they have to be replaced with genuine spares.

• Lamp
The fitting mounts a high-pressure lamp that needs an external igniter. This igniter is fitted onto the apparatus.
- Carefully read the "operating instructions" provided by the lamp manufacturer.
- Immediately replace the lamp if damaged or deformed by heat.

Risk Group 1
According to
EN 62471

• Photobiological Safety
CAUTION. Do not look directly at the light source.
Do not look at the light beam with optical devices or any other tool that could cause light convergence.

This product is intended for the following areas of application:
studios, stages, theaters, exhibitions, trade fairs, events, theme parks, entertainment venues, architectural lighting and similar

Not suitable for household illumination

Not for residential use

• Battery
This product contains a rechargeable lead-acid or lithium iron tetraphosphate battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

Disposing
This product is supplied in compliance with European Directive 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE). To preserve the environment please dispose/recycle this product at the end of its life according to the local regulation.

The products to which this manual refers comply with the European Directives pursuant to:
- 2006/95/EC - Safety of electrical equipment supplied at low voltage (LVD)
- 2004/108/EC - Electromagnetic Compatibility (EMC)
- 2011/65/EU - Restriction of the use of certain hazardous substances (RoHS)

INFORMAZIONI DI SICUREZZA

• Installazione
Assicurarsi che tutte le parti per il fissaggio del proiettore siano in buona condizione.
Assicurarsi della stabilità del punto di ancoraggio prima di posizionare il proiettore.
La fune di sicurezza, debitamente agganciata all'apparecchio e fissata alla struttura di sostegno, deve essere installata in modo che, in caso di cedimento del sistema di supporto primario, si abbia la minor caduta possibile dell'apparecchio. Dopo un eventuale intervento la fune di sicurezza deve essere sostituita con il ricambio originale.

• DISTANZA MINIMA DEGLI OGGETTI ILLUMINATI
Il proiettore deve essere posizionato in modo tale che gli oggetti colpiti dal fascio luminoso siano distanti almeno 12 metri dall'obiettivo del proiettore stesso.

• Distanza minima dei materiali infiammabili
Il proiettore deve essere posizionato in modo tale che i materiali infiammabili siano distanti almeno 0,20 metri da ogni punto della superficie dell'apparecchio.

• Superficie di montaggio
È consentito il montaggio dell'apparecchio su superfici normalmente infiammabili.

t_a 40°C

• Massima temperatura ambente
Non utilizzare il proiettiore se la temperatura ambiente (Ta) supera i 40°C.

IP20

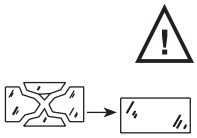
• Grado di protezione IP20
L'apparecchio è protetto contro la penetrazione di corpi solidi di dimensione superiore a 12mm (prima cifra 2), mentre teme lo stillicidio, la pioggia, gli spruzzi e i getti d'acqua (seconda cifra 0).

• Protezione contro la scossa elettrica
È obbligatorio effettuare il collegamento ad un impianto di alimentazione dotato di un'efficiente messa a terra (apparecchio di **Classe I** secondo la norma EN 60598-1).
Si raccomanda, inoltre, di proteggere le linee di alimentazione dei proiettori dai contatti indiretti e/o cortocircuiti verso massa tramite l'uso di interruttori differenziali opportunamente dimensionati.

• Collegamento alla rete di alimentazione
Le operazioni di collegamento alla rete di distribuzione dell'energia elettrica devono essere effettuate da un installatore elettrico qualificato. Verificare che frequenza e tensione della rete corrispondano alla frequenza ed alla tensione per cui il proiettore è predisposto ed indicate sulla targhetta dei dati elettrici. Sulla medesima targhetta è pure indicata la potenza assorbita. Fare riferimento a quest'ultima per valutare il numero massimo di apparecchi da collegare alla linea elettrica, al fine di evitare sovraccarichi.

t_c 100°C

• Temperatura della superficie esterna
La temperatura massima raggiungibile sulla superficie esterna dell'apparecchio, in condizioni di regime termico, è di 100°C.



• Manutenzione
Prima di iniziare qualsiasi operazione di manutenzione o pulizia sul proiettore togliere la tensione dalla rete di alimentazione. Dopo lo spegnimento non rimuovere alcuna parte dell'apparecchio per 10 minuti. Trascorso tale tempo la probabilità di esplosione della lampada è praticamente nulla. Se è necessario sostituire la lampada, aspettare ulteriori 20 minuti per evitare scottature.
L'apparecchio è progettato in modo da trattenere le schegge prodotte dall'eventuale scoppio della lampada. Le lenti devono essere obbligatoriamente montate; devono inoltre, se visibilmente danneggiate, essere sostituite con ricambi originali.

• Lampada
L'apparecchio monta una lampada ad alta pressione che richiede un accenditore esterno.
Tale accenditore è incorporato nell'apparecchio.
- Leggere attentamente le "istruzioni d'uso" fornite dal costruttore della lampada.
- Sostituire immediatamente la lampada se danneggiata o deformata dal calore.

Gruppo di rischio 1
Secondo la norma
EN 62471

• Sicurezza fotobiologica
ATTENZIONE. Non guardare direttamente la sorgente di luce.
Non guardare il fascio di luce con strumenti ottici o altri strumenti che potrebbero causare convergenza di luce.

Il prodotto è concepito per essere utilizzato nei seguenti ambiti:
studi, palchi, teatri, esposizioni, fiere, eventi, parchi a tema, locali di intrattenimento, illuminazione architetturale e simili.

Non adatto all'illuminazione domestica

Non per uso residenziale

• Batteria
Questo prodotto contiene una batteria ricaricabile piombo-acido o Litio Ferro Tetrafosfato. A tutela dell'ambiente si prega di smaltire la batteria a fine vita in conformità alla normativa vigente.

Smaltimento
Questo dispositivo è conforme alla Direttiva Europea 2012/19/UE - Rifiuti di apparecchiature elettriche ed elettroniche (RAEE). Nel rispetto dell'ambiente, smaltire/riciclare il prodotto al termine del suo ciclo di vita secondo le disposizioni di legge locali.

I prodotti a cui questo manuale si riferisce sono conformi alle Direttive Europee di cui sono oggetto:
• 2006/95/CE - Sicurezza delle apparecchiature alimentate in Bassa Tensione (LVD)
• 2004/108/CE - Compatibilità Elettromagnetica (EMC)
• 2011/65/UE - Restrizione d'uso di determinate sostanze pericolose (RoHS)

CONSIGNES DE SÉCURITÉ

• Installation
S'assurer que toutes les pièces pour la fixation du projecteur sont en bon état.
S'assurer de la stabilité du point d'ancrage avant de positionner le projecteur.
Le câble de sécurité, à fixer correctement à l'appareil et à la structure de support, doit être installé de façon à ce que, en cas de rupture du système de support principal, la chute de l'appareil soit la plus limitée possible. Après une éventuelle intervention du câble de sécurité suite à une chute, il faut le remplacer par une pièce de rechange d'origine.

• DISTANCE MINIMUM DES OBJETS ECLAIRES
Le projecteur doit être positionné de façon à ce que les objets éclairés par le faisceau lumineux soient à une distance d'au moins 12 mètres de l'objectif du projecteur.

• Distance minimum des substances inflammables
Le projecteur doit être positionné de façon à ce qu'il y ait une distance d'au moins 0,20 mètre entre toute substance inflammable et tout point de sa surface.

• Surface de montage
L'appareil peut être monté sur des surfaces normalement inflammables.

t_a 40°C

• Température ambiante maximum
Ne pas utiliser le projecteur quand la température ambiante (Ta) dépasse 40°C.

IP20

• Degré de protection IP20
L'appareil est protégé contre la pénétration de corps solides de dimension supérieure à 12 mm (premier chiffre 2), tandis qu'il craint les gouttes d'eau, la pluie et les projections d'eau (deuxième chiffre 0).

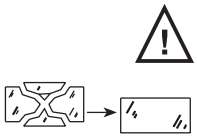
• Protection contre l'électrisation
L'appareil doit obligatoirement être branché à une installation d'alimentation équipée d'une mise à la terre efficace (appareil de **Classe I** selon la norme EN 60598-1).
Nous recommandons également de protéger les lignes d'alimentation des projecteurs contre les contacts indirects et/ou les courts-circuits vers la masse en utilisant des interrupteurs différentiels de sensibilité adéquate.

• Branchement au réseau d'alimentation
Les opérations de branchement au réseau de distribution de l'énergie électrique doivent être exécutées par un installateur électrique qualifié. Contrôler que la fréquence et la tension de réseau correspondent à la fréquence et à la tension pour lesquelles le projecteur est prévu ; ces données sont indiquées sur la plaquette des données électriques. Cette même plaquette reporte également la puissance absorbée. Afin d'éviter des surcharges, se référer à celle-ci pour évaluer le nombre maximum d'appareils à brancher à la ligne électrique.

• Température de la surface extérieure
La température maximum qui peut être atteinte sur la surface extérieure de l'appareil, en conditions de régime thermique, est de 100°C.

t_c 100°C

• Entretien
Avant de procéder à toute opération d'entretien ou de nettoyage sur le projecteur, couper la tension d'alimentation. Après avoir éteint le projecteur, ne démonter aucun élément de l'appareil pendant les 10 minutes qui suivent. Une fois ce temps écoulé, la probabilité d'explosion de la lampe est quasiment nulle. S'il faut remplacer la lampe, attendre encore 20 minutes afin d'éviter tout risque de brûlures.
L'appareil a été conçu de façon à retenir les éclats produits en cas d'explosion de la lampe. Les lentilles doivent obligatoirement être montées sur l'appareil et doivent être remplacées par des pièces d'origine dès qu'elles sont visiblement endommagées.



• Lampe
L'appareil fonctionne avec une lampe haute pression avec ballast externe.
Ce dernier est incorporé dans l'appareil.
- Lire avec attention les « instructions d'utilisation » fournies par le fabricant de la lampe.
- Remplacer la lampe dès qu'elle est endommagée ou déformée par la chaleur

Classe de dangerosité 1
Selon la norme
EN 62471

• Sécurité photobiologique
ATTENTION. Ne pas regarder directement la source de lumière.
Ne pas regarder le faisceau de lumière avec des instruments optiques ou d'autres instruments qui pourraient provoquer une convergence lumineuse.

Le produit est conçu pour être utilisé dans les milieux suivants :
studios, scènes, théâtres, expositions, salons, événements, parcs à thème, lieux de divertissement, éclairage architectural et similaires

Non adapté à l'éclairage domestique

Non indiqué pour un utilization résidentiel

• Batteria
Questo prodotto contiene una batteria ricaricabile piombo-acido o Litio Ferro Tetrafosfato. A tutela dell'ambiente si prega di smaltire la batteria a fine vita in conformità alla normativa vigente.

Élimination
Ce dispositif est conforme à la Directive Européenne 2012/19/UE – Déchets d'équipements électriques et électroniques (DEEE). Dans le respect de l'environnement, écouler/recycler le produit à la fin de son cycle de vie selon les dispositions légales locales.

Les produits auxquels ce manuel se rapporte sont conformes aux Directives Européennes dont ils font l'objet :
• 2006/95/CE - Sécurité des matériels électriques de Basse Tension (BT)
• 2004/108/CE - Compatibilité Électromagnétique (CEM)
• 2011/65/UE - Limitation de l'utilisation de certaines substances dangereuses (RoHS)

INFORMATIONEN ZUR SICHERHEIT

• Installation
Sicherstellen, dass alle Teile für die Befestigung des Projektors in einwandfreiem Zustand sind.
Vor der Installation des Projektors die Stabilität der Verankerungsstelle überprüfen.
Das korrekt am Gerät eingehakte und an der Haltestruktur befestigte Sicherheitsseil muss so installiert werden, dass bei einem Nachgeben der Haupthalterung die Fallhöhe des Gerätes so gering wie möglich ist. Nach einem eventuellen Einsatz muss das Sicherheitsseil durch ein Originalersatzteil ersetzt werden.

• MINDESTABSTAND ZU BELEUCHTETEN OBJEKTEN
Der Projektor muss so installiert werden, dass der Abstand zwischen den vom Lichtstrahl beleuchteten Objekten und dem Objektiv des Projektors mindestens 12 Meter beträgt.

• Mindestabstand zu entzündbaren Materialien
Der Projektor muss so installiert werden, dass entzündbare Materialien mindestens 0,20 Meter von jedem Punkt der Geräteoberfläche entfernt sind.

• Montageoberfläche
Die Montage des Geräts auf normal entzündbaren Oberflächen ist zulässig.

t_a 40°C

• Max. Raumtemperatur
Den Projektor nicht verwenden, wenn die Raumtemperatur (RT) 40°C überschreitet.

IP20

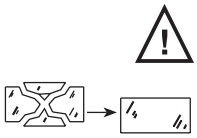
• Schutzart IP20
Das Gerät ist gegen das Eindringen von festen Fremdkörpern mit Durchmesser über 12 mm (erste Kennziffer 2) geschützt, während es gegen Tropf,- Regen- und Spritzwasser sowie Wasserstrahlen (zweite Kennziffer 0) empfindlich ist.

• Schutz gegen Stromschlag
Es ist Pflicht, das Gerät an eine Stromversorgungsanlage anzuschließen, die mit einer leistungsfähigen Erdung ausgestattet ist (Gerät der **Klasse I** gemäß Richtlinie EN 60598-1).
Darüber hinaus wird empfohlen, die Zuleitungen der Projektoren mit korrekt bemessenen Fehlerstromschutzschaltern vor indirekten Kontakten und/oder Kurzschlüssen zu schützen.

• Netzanschluss
Der Anschluss an das Stromnetz muss von einem kompetenten Elektroinstallateur ausgeführt werden. Vergewissern Sie sich, dass Spannung und Frequenz der Netzversorgung mit den Werten übereinstimmen, für die der Projektor ausgelegt ist und die auf dem Typenschild angegeben sind. Ebenfalls auf dem Typenschild ist die Leistungsaufnahme angegeben. Um zu beurteilen, wie viele Geräte maximal an die Stromleitung angeschlossen werden können, ist auf diese Angaben Bezug zu nehmen, damit Überlastungen vermieden werden.

t_c 100°C

• Temperatur der Außenfläche
Die Außenfläche des Geräts kann im Wärmebetrieb eine Höchsttemperatur von 100°C erreichen.



• Wartung
Vor Beginn von Wartungs- oder Reinigungsarbeiten am Projektor stets die Stromversorgung abschalten. Nach dem Abschalten 10 Minuten lang keine Geräteteile abnehmen. Nach Ablauf dieser Zeit besteht praktisch keine Gefahr mehr, dass die Lampe birst. Falls die Lampe ersetzt werden muss, weitere 20 Minuten warten, um Verbrennungsgefahr zu vermeiden.
Das Gerät wurde so konzipiert, dass es die Splitter bei einem eventuellen Bersten der Lampe zurückhält. Die Montage der Linsen ist obligatorisch vorgeschrieben; des Weiteren müssen sie bei sichtbarer Beschädigung durch Originalersatzteile ersetzt werden.

• Lampe
Das Gerät ist mit einer Hochdrucklampe bestückt, die eine externe Zündeinheit verlangt.
Diese Zündeinheit ist in das Gerät eingebaut.
- Lesen Sie die vom Lampenhersteller gelieferte "Bedienungsanleitung" aufmerksam durch.
- Eine beschädigte oder von der Hitze verformte Lampe muss sofort ersetzt werden.

Gefahrenklasse 1
Gemäß Norm
EN 62471

• Photobiologische Sicherheit
ACHTUNG. Nicht direkt in die Lichtquelle blicken.
Den Lichtstrahl nicht mit optischen Geräten oder anderen Instrumenten anschauen, die Lichtkonvergenz verursachen könnten.

Il prodotto è concepito per essere utilizzato nei seguenti ambiti:
studi, palchi, teatri, esposizioni, fiere, eventi, parchi a tema, locali di intrattenimento, illuminazione architetturale e simili.

Nicht für Haushaltsbeleuchtung geeignet

Nicht für den häuslichen Gebrauch

LiFePO4
Pb

• Batterie
Dieses Produkt enthält eine wiederaufladbare Blei-Säure-Batterie oder Lithium-Eisen-tetraphosphat. Zum Schutz der Umwelt bitten wir Sie, diese Batterie, nachdem sie verbraucht ist, gemäß den geltenden Vorschriften zu entsorgen.

Entsorgung
Diese Vorrichtung entspricht der Europäischen Richtlinie 2012/19/UE - Abfall von elektrischen und elektronischen Gerätschaften (RAEE). Das Produkt am Ende seines Lebenszyklus unter Berücksichtigung der Umwelt nach den lokalen Gesetzesvorschriften entsorgen/recyceln.

Die Produkte, auf die dieses Handbuch sich bezieht, entsprechen den Europäischen Richtlinien, denen sie unterliegen:
- 2006/95/EG - Niederspannungsrichtlinie (LVD)
- 2004/108/EG - Elektromagnetische Kompatibilität (EMC)
- 2011/65/EU - Beschränkung der Verwendung bestimmter gefährlicher Stoffe (RoHS)

INFORMACIONES DE SEGURIDAD

• Instalación
Asegúrese de que todos los elementos de fijación del proyector estén en buenas condiciones.
Controle la estabilidad del punto de anclaje antes de instalar el proyector.
La cuerda de seguridad, correctamente enganchada al aparato y fijada a la estructura de soporte, debe colocarse de modo que, si el soporte principal cede, el aparato sufra la menor caída posible. En caso de desgaste de la cuerda de seguridad, sustitúyala por el recambio original.

• DISTANCIA MINIMA DE LOS OBJETOS ILUMINADOS
El proyector debe ser posicionado de modo tal que los objetos tocados por el haz luminoso tengan una distancia de al menos 12 metros del objetivo del mismo proyector.

• Distancia mínima de los materiales inflamables
El proyector debe ser posicionado de modo tal que los materiales inflamables tengan una distancia de al menos 0,20 metros de cada punto de la superficie del aparato.

• Superficie de montaje
Está permitido el montaje del aparato en superficies normalmente inflamables.

t_a 40°C

• Máxima temperatura ambiente
No utilice el proyector si la temperatura ambiente (ta) supera los 40°C.

IP20

• Grado de protección IP20
El aparato está protegido contra la penetración de cuerpos sólidos de dimensiones superiores a 12 mm (primer dígito 2), pero no contra el goteo, la lluvia, las salpicaduras y los chorros de agua (segundo dígito 0).

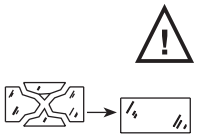
• Protección contra descargas eléctricas
Es obligatorio efectuar la conexión a una instalación de alimentación dotada de una eficiente puesta a tierra (aparato de **Clase I** según la norma EN 60598-1).
Además, se recomienda proteger las líneas de alimentación de los proyectores de los contactos indirectos y/o cortocircuitos hacia masa, mediante el uso de interruptores diferenciales dimensionados oportunamente.

• Conexión a la red de alimentación
Las operaciones de conexión a la red de distribución de la energía eléctrica deben ser efectuadas por un instalador eléctrico cualificado. Constate que los valores de frecuencia y tensión de la red sean iguales a los que figuran en la placa de los datos eléctricos del proyector. En la misma placa está indicada la potencia absorbida. Hacer referencia a esta última para valorar el número máximo de aparatos que conectar a la línea eléctrica, con el fin de evitar sobrecargas.

• Temperatura de la superficie externa
La temperatura máxima que puede alcanzar la superficie externa del aparato, en condiciones de régimen térmico, es de 100°C.

t_c 100°C

• Mantenimiento
Antes de iniciar cualquier operación de mantenimiento o limpieza del proyector desconecte el aparato de la alimentación eléctrica. Después del apagado no extraiga ninguna parte del aparato durante 10 minutos. Transcurrido dicho tiempo la probabilidad de que la lámpara explote es prácticamente nula. Si fuera necesario cambiar la lámpara, espere 20 minutos más para evitar quemarse.
El aparato está proyectado para retener las astillas producidas por el posible estallido de la lámpara. Las lentes deben montarse obligatoriamente; además, si estuvieran dañadas, deberán ser sustituidas por recambios originales.



• Lámpara
El aparato utiliza una lámpara de alta presión que requiere un arrancador externo.
Dicho arrancador está incorporado en el aparato.
- Leer atentamente las "instrucciones de uso" suministradas por el fabricante de la lámpara.
- Sustituir la lámpara inmediatamente si estuviera dañada o deformada por el calor.

• Seguridad fotobiológica
ATENCIÓN. No mire directamente a la fuente de luz.
No mire el haz de luz con instrumentos ópticos u otros instrumentos que puedan causar convergencia de luz.

Clase de peligrosidad 1
Según la norma
EN 62471

El producto es concebido para ser utilizado en los siguientes ambientes:
estudios, palcos, teatros, exposiciones, ferias, eventos, parques temáticos locales de entretenimiento, iluminación de arquitecturas y similares

No es apropiado para la iluminación doméstica

No para uso residencial

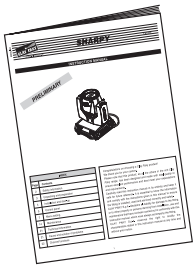
LiFePO4
Pb

• Batería
Este producto contiene una batería recargable plomo-ácido o de litio tetrafosfato Hierro. Para proteger el ambiente se ruega eliminar la batería conforme a la normativa vigente.

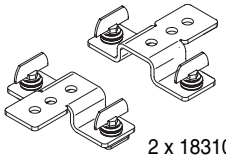
Eliminación
Este dispositivo es conforme a la Directiva Europea 2012/19/UE - Residuos de equipos eléctricos y electrónicos (RAEE). Con el fin de respetar el ambiente, eliminar/reciclar el producto al final de su ciclo de vida según las disposiciones de ley locales

Los productos a los que se refiere este manual son conformes a las Directivas Europeas de las cuales son objeto:
• 2006/95/CE - Seguridad de los equipos alimenticios de Baja Tensión (LVD)
- 2004/108/CE - Compatibilidad Electromagnética (EMC)
• 2011/65/UE - Restricción del uso de determinadas sustancias peligrosas (RoHS)

1

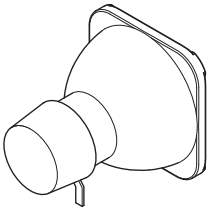


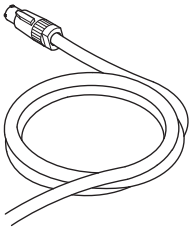
IST005/001



2 x 183102/805

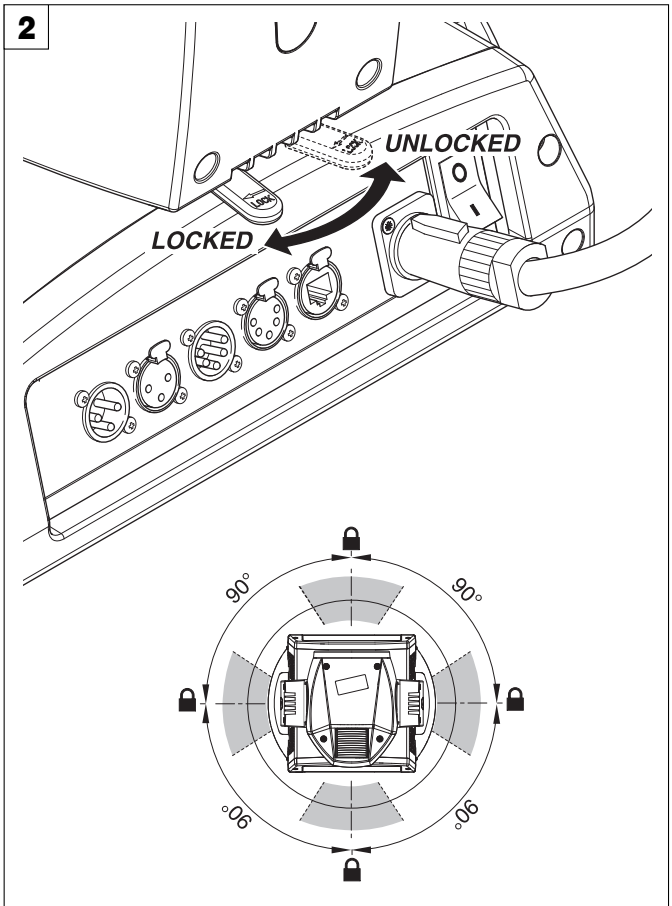
Lamp 189W
(fitted into projector)



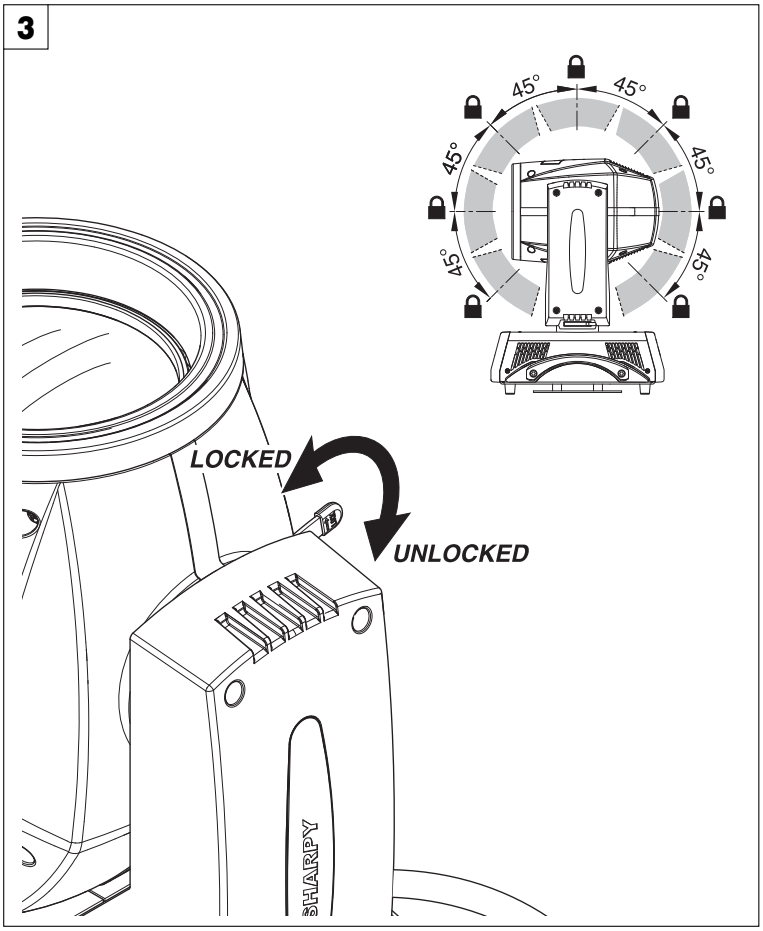


Packing contents - Fig. 1

2



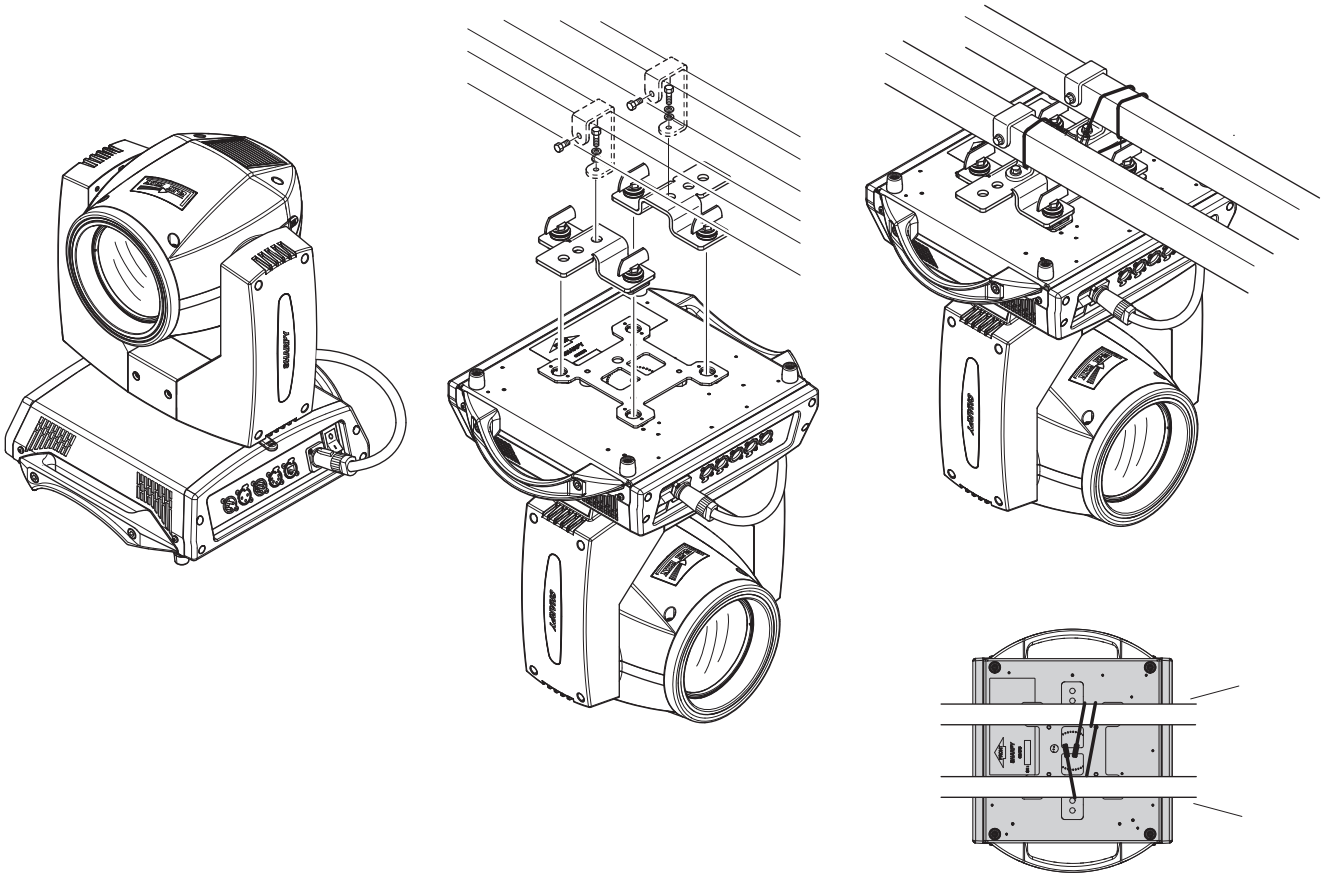
3



PAN Mechanism Lock and Release (every 90°) - Fig. 2

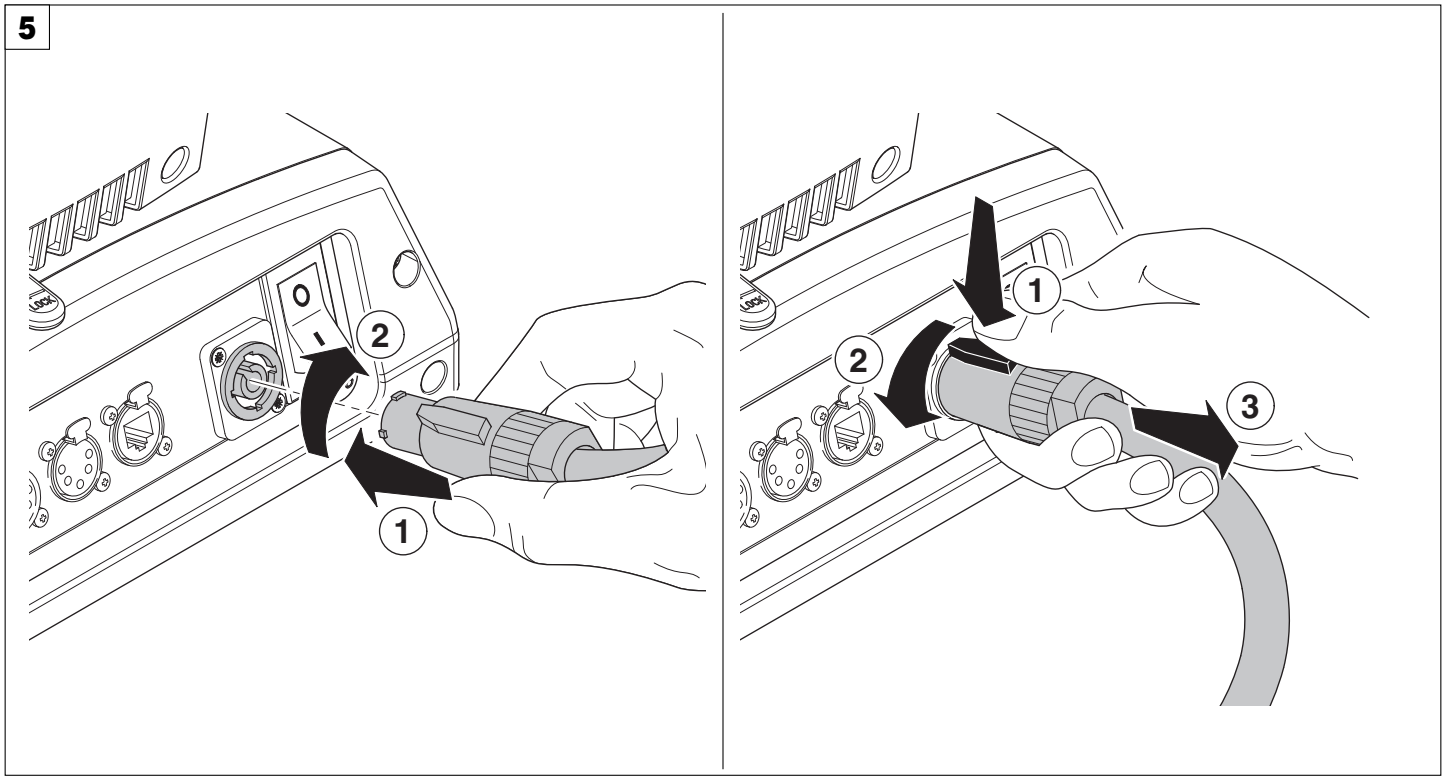
TILT Mechanism Lock and Release (every 45°) - Fig. 3

4



Installing the projector - Fig. 4
The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.
WARNING: ***with the exception of when the projector is positioned on the floor, the safety cable must be fitted. (Cod. 105041/003 available on request). This must be securely fixed to the support structure of the projector and then connected to the fixing point at the centre of the base.***

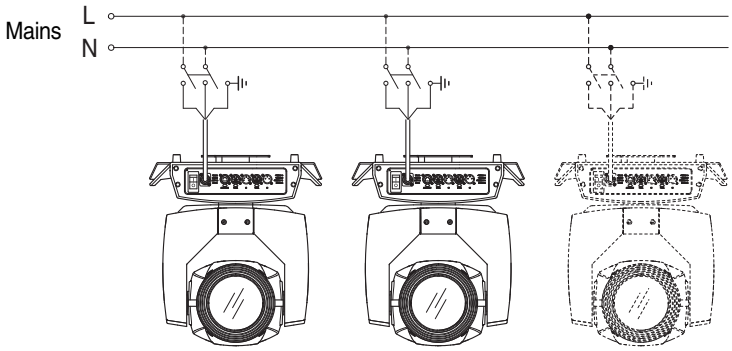
5



Connecting and disconnecting power cable - Fig. 5

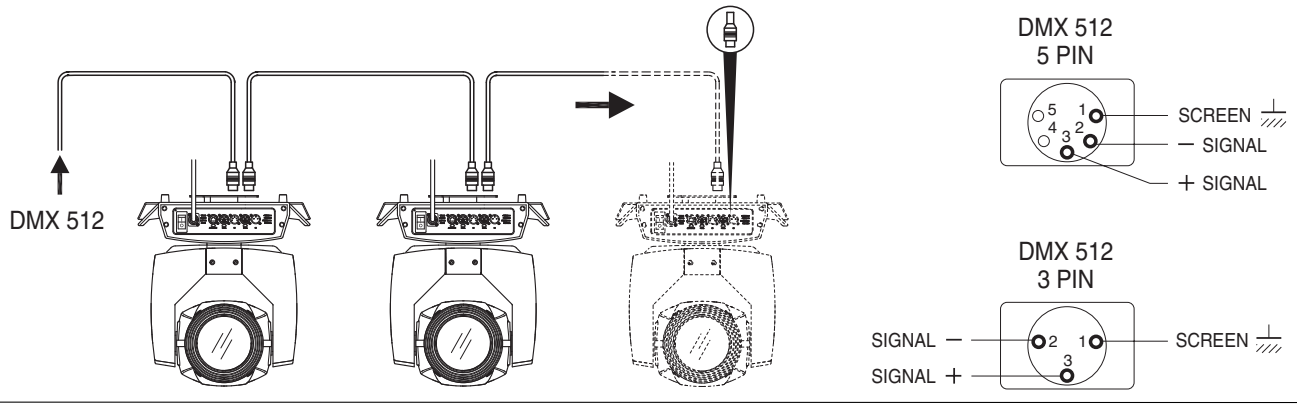
Continue ➔

6



Connecting to the mains supply - Fig. 6

7

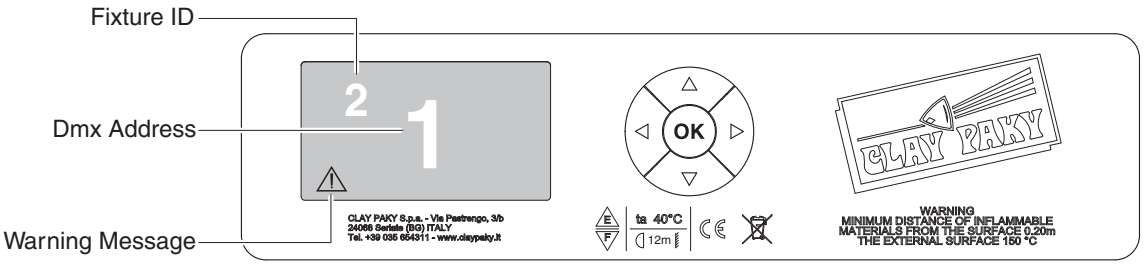


Connecting to the control signal line (DMX) - Fig. 7

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.

8



Switching on the projector - Fig. 8

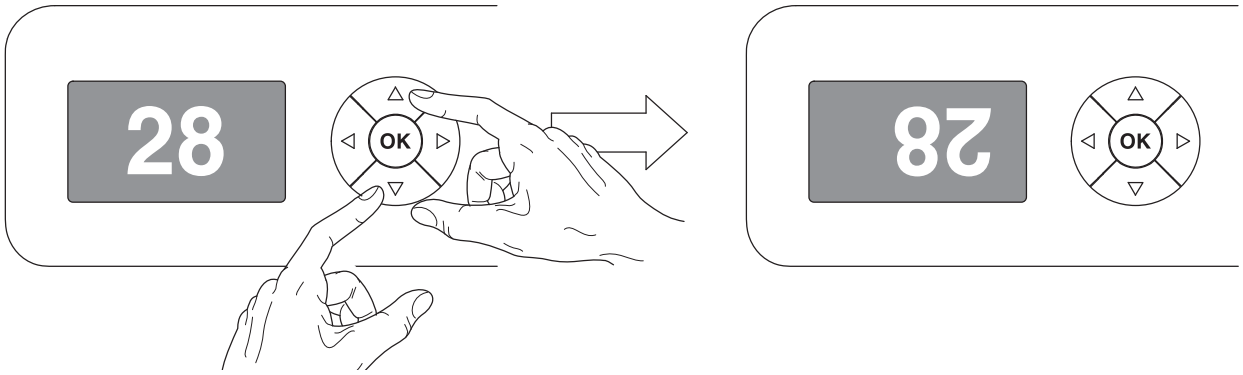
Press the switch. The projector starts resetting the effects. At the same time, the following information scrolls on the display:

CLAY PAKY	**Model** **SHARPY**	**Firmware** **Version X.X.X** **Date - Hour**	**xxx (Fixture ID)** **Dmx Address xxx**	**System errors** **E: .....** **W: .....

On conclusion of resetting in case of absence of the dmx signal, Pan and Tilt move to the “Home” position (Pan 50% - Tilt 50%). The control panel (Fig. 8) has a display and buttons for the complete programming and management of the projector menu. The display can be in one of two conditions: rest status and setting status. When it is in the rest status, the display shows the projector’s DMX address and the Fixture ID address (if set).

During menu setting status, after a wait time (about 30 seconds) without any key having been pressed, the display automatically returns to rest status. It should be noted than when this condition occurs, any possible value that has been modified but not yet confirmed with the OK key will be cancelled.

9



Reversal of the display - Fig. 9

To activate this function, press UP ⊕ and DOWN ⊖ keys simultaneously while the display is in the rest mode. This status will be memorised and maintained even for the next time it will be switched on. To return to the initial state, repeat the operation all over again.

Setting the projector starting address

On each projector, the starting address must be set for the control signal (addresses from 1 to 512).

The address can also be set with the projector switched off.

Setting the address: see pag. 8.

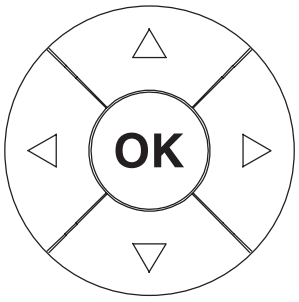
Setting the projector Fixture ID

On each projector, the Fixture ID address must be set for an easy identification of the fixtures in an installation (ID from 1 to 255).

The Fixture ID address can be set with the projector switched off.

Setting the Fixture ID: see pag. 8.

Functions of the buttons - Using the menu



OK	Confirms the displayed value, or activates the displayed function, or enters the successive menu.
DOWN	Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.
UP	Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.
LEFT	Return to the top level
RIGHT	Commute from units, tens, hundreds, in the "Address", "Fixture ID" and "Calibration" menù.

USING THE MENU:

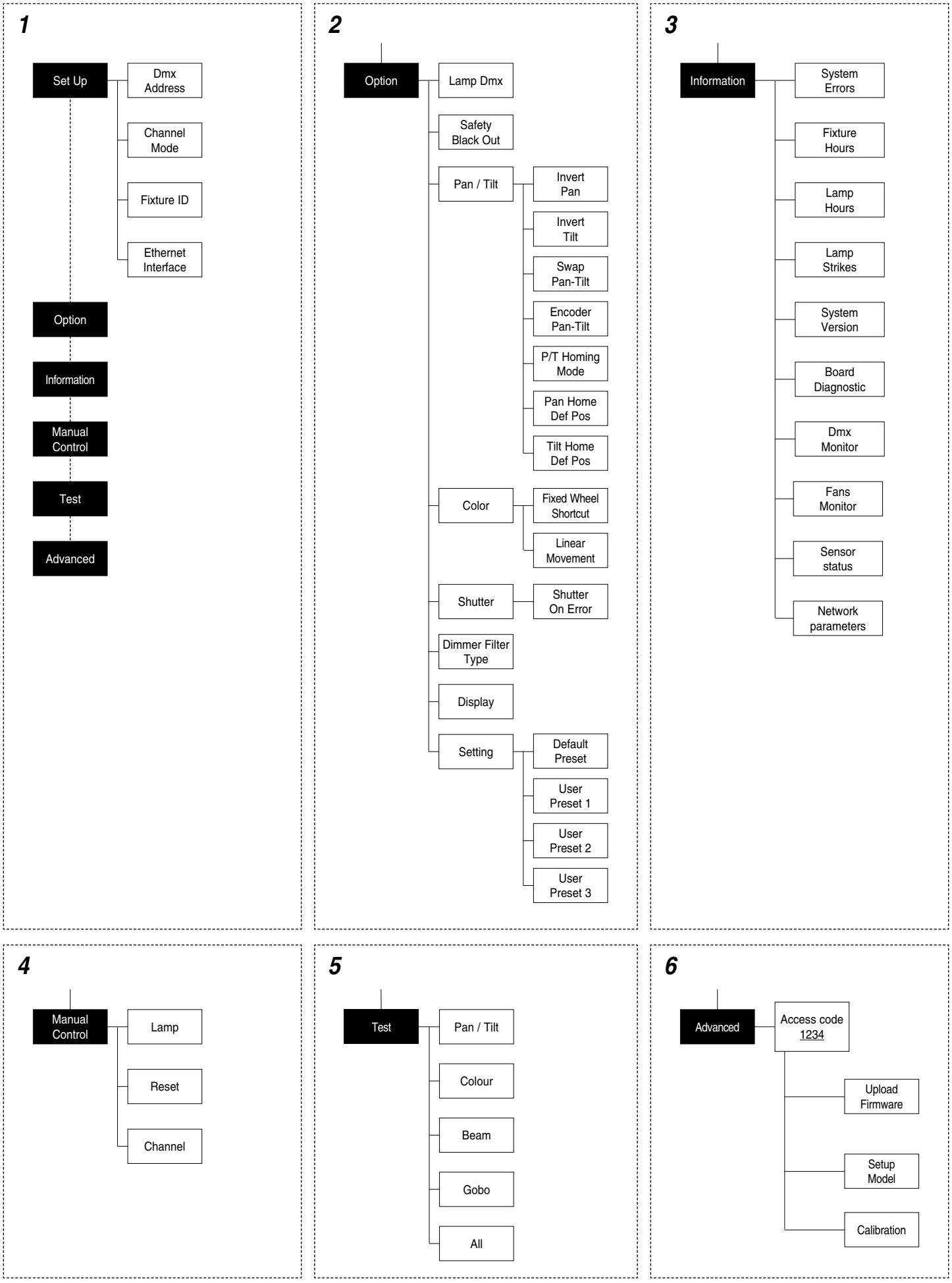
1) Press OK once – “Main Menu” appears on the display.
2) Use the UP ⊕ and DOWN ⊖ keys to select the menu to be used:
   - Setup (Setup Menu): To set the setting options.
   - Option (Option Menu): To set the operating options
   - Informations (Informations Menu): To read the counters, software version and other information.
   - Manual Control (Manual control Menu): To trigger the test and manual control functions.
   - Test (Test Menu): To check the proper functionning of effects
   - Advanced (Advanced Menu): Access to the "Advanced menu" is recommended for a trained technical personnel.

   To enable the "Advanced" see pag.13
3) Press OK to display the first item in the selected menu.
4) Use the UP ⊕ and DOWN ⊖ keys to select the MENU items.

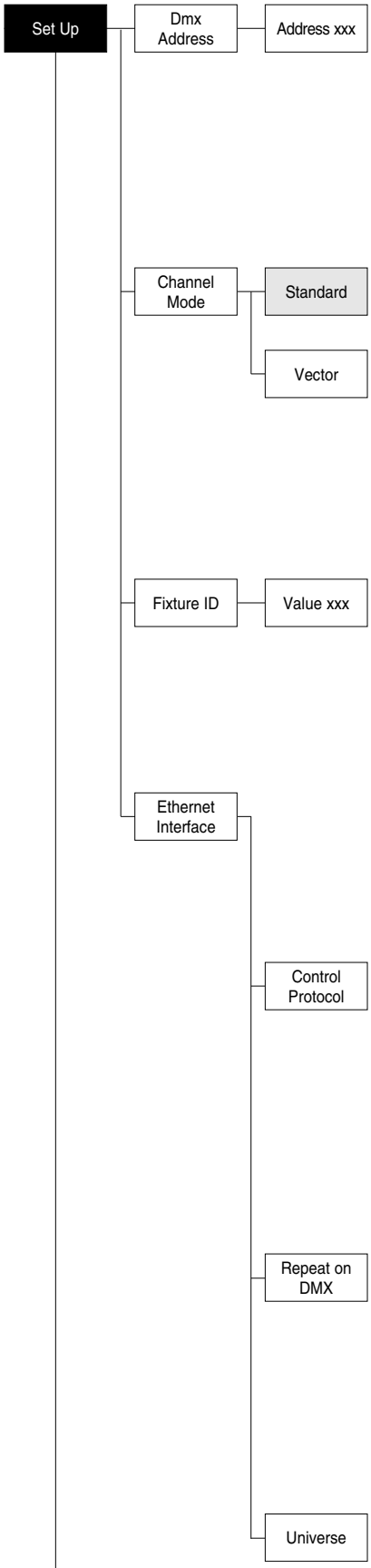
Setting addresses and options with the projector disconnected

The projector’s DMX address, as well as other possible operating options, can also be set when the appliance is disconnected from the electricity supply. All that is needed is to press OK to momentarily activate the display and thus access the settings. Once the required operations have been carried out, the display will switch off again after a wait time of 30 seconds.

MENU SETTING



NOTE: On grey the default options



SET UP MENU

DMX ADDRESS

NOTE: without the DMX signal the Address (XXX) flashing

Allows you to select the DMX ADDRESS.

1) Press (OK) - the current DMX Adress appear on the display.
2) Use the UP (▲) and DOWN (▼), RIGHT (▶) keys to plan the DMX Address.
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

CHANNEL MODE

Allows you to select a channel arrangement from the two available.

1) Press (OK) - the current settings appear on the display (Standard or Vector).
2) Use the UP (▲) and DOWN (▼) keys to select one of the following settings:
   - Standard
   - Vector
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

FIXTURE ID

Allows you to select the FIXTURE ID.

1) Press (OK) - the current Fixture ID appear on the display.
2) Use the UP (▲), DOWN (▼), RIGHT (▶) keys to plan the Fixture ID.
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

ETHERNET INTERFACE

It lets you set the Ethernet settings to be attributed to the projector.

1) Premere (OK).
2) Use the UP (▲) and DOWN (▼) keys to select the “Ethernet Interface” options to set:

Control Protocol

It lets you select the “Control Protocol” Art-net to assign according to the control unit used:

1) Press (OK) the current setting appears on the display.
2) Use the UP (▲) and DOWN (▼) keys to select one of the following settings:
   - Disabled
   - Art-net on IP 2
   - Art-net on IP 10
3) Press (OK) to confirm the selection or LEFT (◀) to keep the current setting.

Repeat on DMX

It lets you enable the transmission of the Ethernet protocol by DMX signal to all the connected projectors.

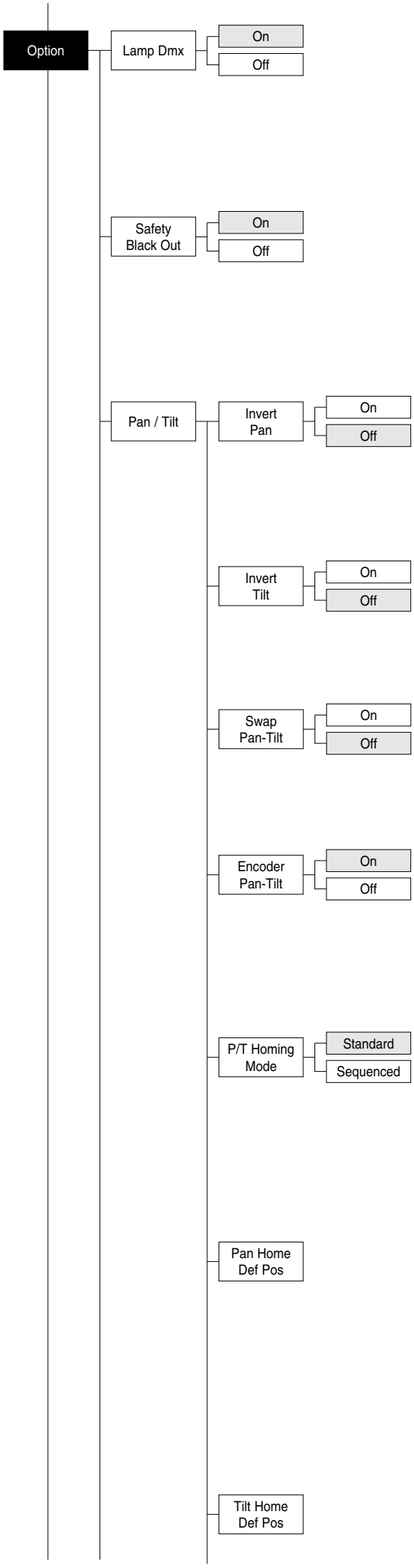
1) Press (OK) the current setting appears on the display.
2) Use the UP (▲) and DOWN (▼) keys to select one of the following settings:
   - **Disabled:** DMX transmission disabled.
   - **Enabled on primary:** DMX transmission enabled.
3) Press (OK) to confirm the selection or LEFT (◀) to keep the current setting.

Universe

It lets you assign the “Universe” number to be assigned to a series of projectors.

1) Press (OK) – the current Universe address appears on the display.
2) Use the UP (▲), DOWN (▼), RIGHT (▶) keys to set the Universe address.
3) Press (OK) to confirm the selection or LEFT (◀) to keep the current setting.

Continue →



OPTIONS MENU

LAMP DMX

Used for enabling lamp remote control channel.

1) Press (OK) - the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to enable (On) or disable (Off) the lamp remote control channel.
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

SAFETY BLACK OUT

This allows the Dimmer's automatic lock option to be activated after 3 seconds with no incoming DMX signal.

1) Press (OK) – the current setting (On or Off) appears on the display.
2) Use the UP (▲), DOWN (▼) keys to enable (ON) or disable (Off) the Dimmer's lock option after 3 seconds with no incoming DMX signal.
3) Press (OK) to confirm the selection or LEFT (◀) to keep the current setting.

PAN / TILT

Invert pan

Used for reversing Pan movement.

1) Press (OK) - the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to enable (On) or disable (Off) PAN inversion.
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

Invert tilt

Used for reversing tilt movement.

1) Press (OK) - the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to enable (On) or disable (Off) Tilt inversion.
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

Swap Pan-Tilt

Used for swapping Pan and Tilt channels (as well as Pan fine and Tilt fine).

1) Press (OK) - the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to enable (On) or disable (Off) Pan and Tilt channel swap.
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

Encoder Pan-Tilt

Used for enabling the Pan / Tilt encoders.

1) Press (OK) - the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to enable (On) or disable (Off) Pan / Tilt encoders.
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

You can quickly disable the Pan and Tilt Encoder by simultaneously pressing the UP (▲) and DOWN (▼) keys in the "Main Menu".

P/T Homing Mode

Lets you set the initial projector Reset mode.

1) Press (OK), the current setting appears on the display.
2) Use the UP (▲) and DOWN (▼) keys to select one of the following settings:
   Standard: Pan & Tilt are simultaneously reset.
   Sequenced: Tilt is reset first followed by Pan.
3) Press (OK) to confirm the selection or LEFT (◀) to keep the current setting.

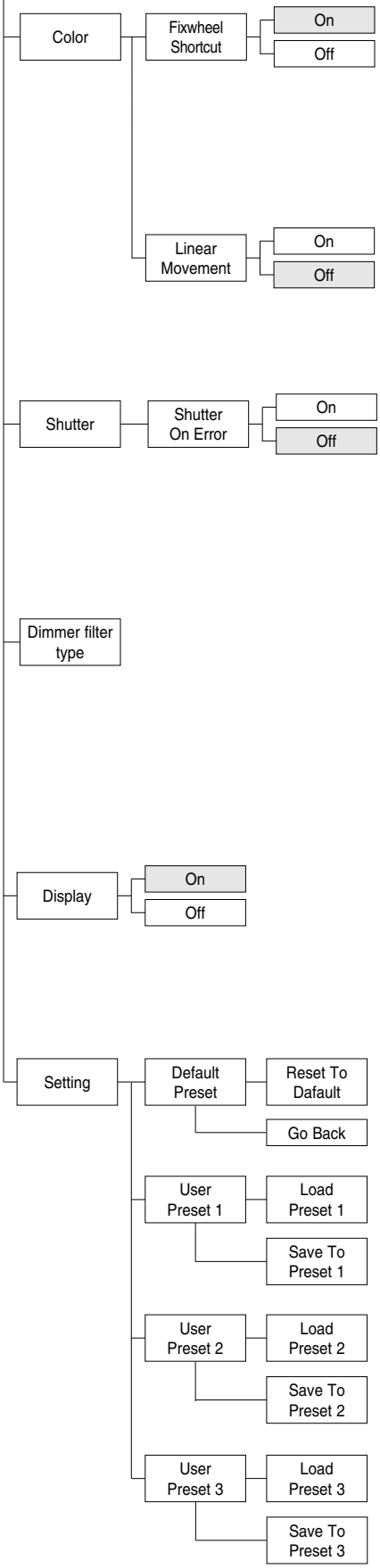
Pan Home Def Pos

Lets you assign the Pan channel “home” position at the end of Reset, without a DMX input signal.

1) Press (OK), the current setting appears on the display.
2) Use the UP (▲) and DOWN (▼) keys to select one of the following settings:
   0 degree
   90 degrees
   180 degrees
   270 degrees (default)
3) Press (OK) to confirm the selection or LEFT (◀) to keep the current setting.

Tilt Home Def Pos

Lets you assign the Tilt channel “home” position at the end of Reset, without a DMX input signal.



1) Press (OK), the current setting appears on the display.
2) Use the UP (▲) and DOWN (▼) keys to select one of the following settings:
   0%
   12.5%
   25%
   50% (default)
   75%
   87.5%
   100%
3) Press (OK) to confirm the selection or LEFT (◀) to keep the current setting.

COLOR

Fixed wheel short-cut

Used for optimizing color change time so that the disc turns in the direction that requires shorter movement.

1) Press (OK) – the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to enable (On) or disable (Off) color change optimization.
3) Press (OK) to confirm the selection, or LEFT (◀) to keep current settings.

Linear Movement

It enables the linear movement of the colour wheel.

1) Press (OK) – the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to enable (On) or disable (Off) the linear movement of the colour wheel.
3) Press (OK) to confirm the selection, or LEFT (◀) to keep current settings.

SHUTTER

Shutter on error

Used for automatically closing the stop/strobe in the event of Pan/Tilt position error.

1) Press (OK) - the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to enable (On) or disable (Off) automatic stop/strobe closing in the event of Pan/Tilt position error.
3) Press (OK) to confirm the selection, or LEFT (◀) to keep current settings.

DIMMER FILTER TYPE

It lets you best optimize the "Dimmer curve" according to that set on the control unit. One of the following 2 options can be selected:

- **DMX follower**
  Dimmer movement speed/linearity follows the DMX values set by the control desk.
- **Position dependent**
  Dimmer movement speed follows the DMX values set by the control unit taking into account the physical Dimmer starting position.

DISPLAY

Used for automatically reduce brightness on the display after about 30 seconds in idle.

1) Press (OK) - the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to enable (On) or disable (Off) the decreasing of display brightness.
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

SETTING

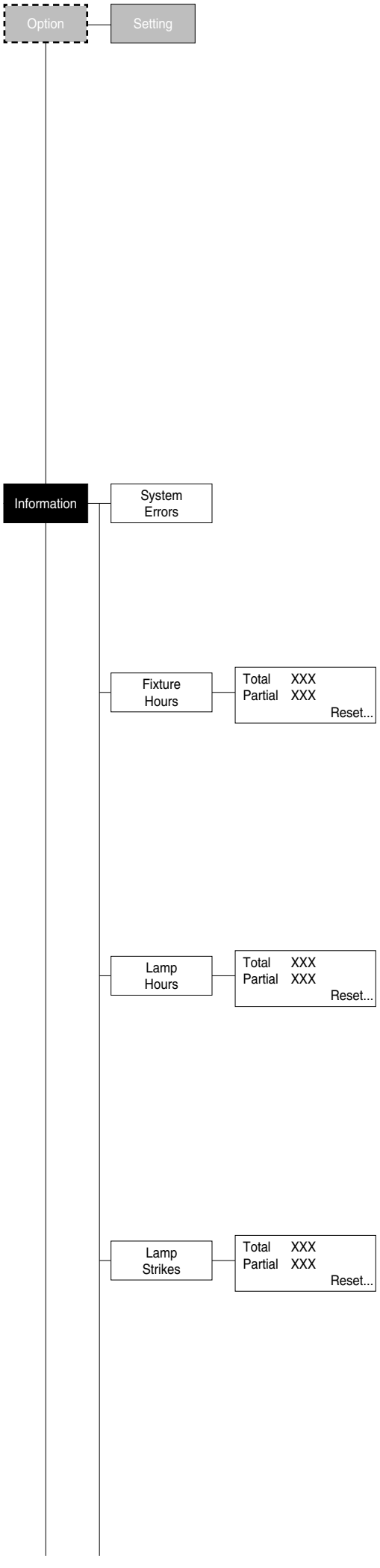
Used to save 3 different settings of the items in the options menu and relative submenus.

1) Press (OK) - “Default preset” appears on the display.
2) Use the UP (▲) and DOWN (▼) keys to select one of the following configurations:
   - Default preset (*)
   - User preset 1
   - User preset 2
   - User Preset 3
3) Press (OK) - “Load preset X” appears on the display.
4) Use the UP (▲) and DOWN (▼) keys to select:
   - Load preset X to recall a previously stored configuration.
   - Save to preset X to store the current configuration.
   a confirmation message (Are you sure?) appears on the display.
5) Select YES to confirm the selection or NO to keep the current setting and return to the next higher level.

(*) DEFAULT PRESET

By pressing the RIGHT (▶) key and the LEFT (◀) key simultaneously once entered in the "main menu" it is possible to quickly (short cut) reset the default settings (DEFAULT PRESET).

Continue →



Used for restoring default values on all options menu items and relevant submenus.
1) Press (OK), a confirmation message (Are you sure?) appears on the display.
2) Select YES to confirm the selction or NO to keep current setting.

OPTION	DEFAULT
Lamp DMX	On
Safety Black Out	Off
Invert Pan	Off
Invert Tilt	Off
Swap Pan-Tilt	Off
Encoder Pan-Tilt	On
P/T Homing Mode	Standard
Pan Home Def Pos	270 degrees
Tilt Home Def Pos	50%
Fixed Wheel Shortcut	On
Linear Movement	Off
Shutter on error	Off
Dimmer Filter Type	DMX follower
Display	On

INFORMATION MENU

SYSTEM ERRORS

Shows a list of warnings and messages relevant to errors occurred since the fixtures switching-on.

1) Pressing (OK) you are allowed to reset the SYSTEM ERRORS list. A confirmation message (Are you sure you want to clear error list ?) appears on the display.
2) Select YES to reset the list or NO to go back.

FIXTURE HOURS

Used for displaying projector operating hours (total and partial).

1) Press (OK) - Hours total and partial appears on the display.
   Total counter
   Counts the number of projector working life hours (from manufacture to date).
   Partial counter
   Counts the number of partial projector working life hours since the last reset to date.
2) Press (OK) to reset partial projector working hours a confirmation message (Are you sure?) appears on the display.
3) Select YES to reset partial projectors counter or NO to keep the current setting and return to the top menu level.

LAMP HOURS

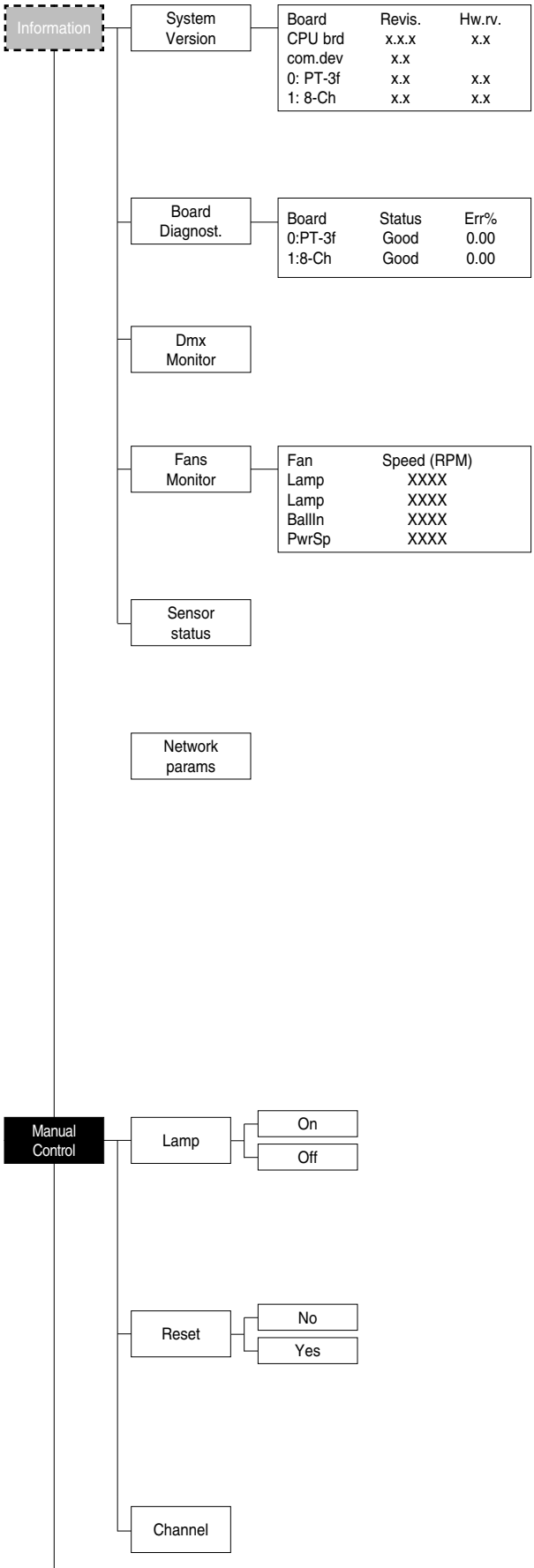
Used for displaying the lamp working hours (total and partial).

1) Press (OK) - Hours total and partial appears on the display.
   Total counter
   Counts the number of projector working hours with the lamp on (from manufacture to date).
   Partial counter
   Counts the number of lamp working hours since the last reset to date.
2) Press (OK) to reset partial lamp working hours, a confirmation message (Are you sure ?) appears on the display.
3) Select YES to reset partial counter or NO to keep the current setting and return to the top menu level

LAMP STRIKES

Used for displaying the number of times the lamp was turned on (total and partial).

1) Press (OK) - the number of times the lamp was turned on (total and partial) appears on the display.
   Total counter
   Counts the number of times the lamp was turned on (from manufacture to date).
   Partial counter
   Counts the number of times the lamp was turned on since the last reset to date.
2) Press (OK) to reset partial lamp strikes hours, a confirmation message (Are you sure ?) appears on the display.
3) Select YES to reset partial counter or NO to keep the current setting and return to the top menu level



SYSTEM VERSION

Used for displaying the software and hardware version of each board installed in the projector.
CPU brd (CPU board)
0: PT-3f (Pan / Tilt board)
1: 8-Ch (8 channel board)

BOARD DIAGNOSTIC

Used for displaying the status error of each board installed in the projector:
0: PT-3f (Pan / Tilt board)
1: 8-Ch (8 channel board)

DMX MONITOR

Used for displaying the projector DMX channel level in bit (Val) and in percentage (Perc).

FANS MONITOR

Used for displaying the speed of each fan installed in the projector:
Lamp (Lamp Fan)
Ball. IN (Ballast IN Fan)
PwrSp (Power Supply Fan)

SENSOR STATUS

It lets you check the correct operations of each "sensor" installed in the projector, each channel is associated with one of the following three parameters:

- n.a.= sensor not available
- ON= sensor working
- OFF= sensor defective

NETWORK PARAMS

Allows the "Network" parameters of the projector to be displayed or:

IP address: Internet Protocol address (two projectors must not have the same IP address)

IP mask: 255.0.0.0

Mac address: Media Access Control: the projector's Ethernet Address

MANUAL CONTROL

LAMP

Used for turning lamp on and off from the projector control panel.

1) Press (OK) - the current settings appear on the display (On or Off).
2) Use the UP (▲) and DOWN (▼) keys to turn the lamp on (On) or off (Off)
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings and return to the top level.

RESET

Used for resetting the projector.

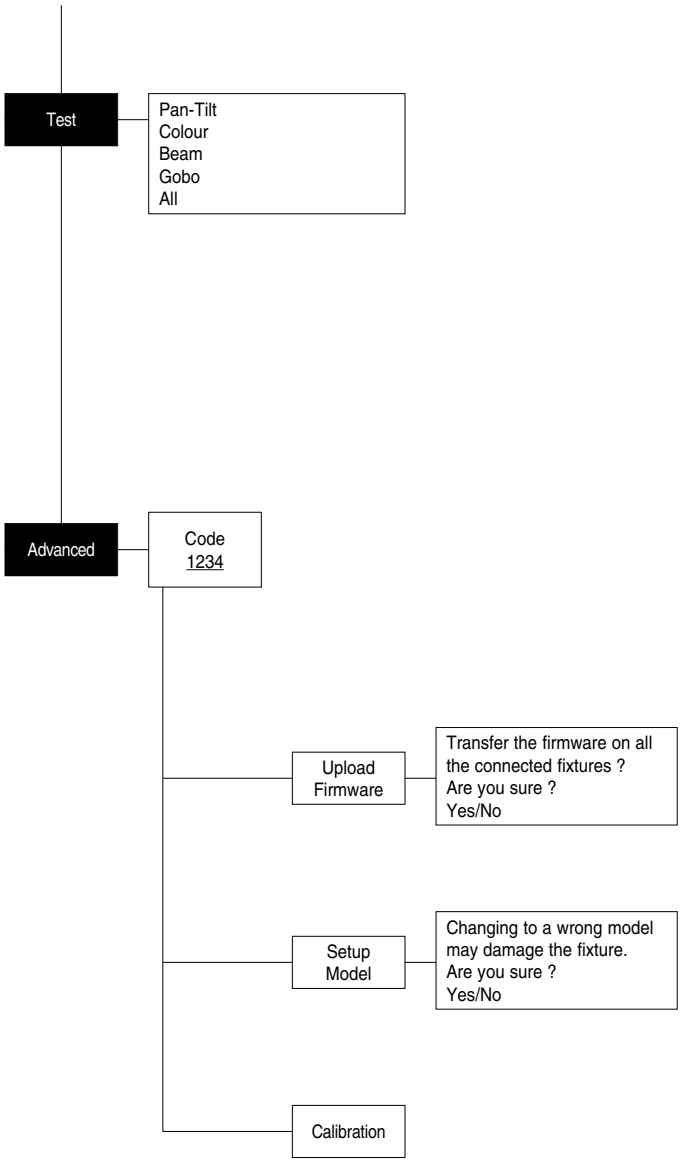
1) Press (OK) to reset the projectors, a confirmation message (Are you sure ?) appears on the display.
2) Select YES to starting reset the fixture or NO to keep the current setting and return to the top menu level.

CHANNEL

Used for setting channel levels from the projector control panel.

1) Press (OK) - the first channel appears on the display.
2) Use the UP (▲) and DOWN (▼) keys to select the required channel:
3) Press (OK) and use the UP (▲) and DOWN (▼) keys to select the required DMX level (value between 0 and 255).
4) Press LEFT (◀) to return to the top menu level.

Continue →



TEST MENU

TEST

Allows you to check the proper functioning of effects.

1) Press (OK) to return to the top menu level.
2) Use the UP (▲) and DOWN (▼) keys to select the required test.
3) Press (OK) to confirm the selection or LEFT (◀) to keep current settings.

Test sequence:
Pan - Tilt effects (Pan & Tilt)
Colour effects (Colour wheel)
Beam effects (Stopper-Strobe / Dimmer / Prism / Frost)
Gobo effects (Static gobo)
All effects

ADVANCED MENU

To enable the "Advanced Menu" set up the "Access code" (1234) using the UP (▲), DOWN (▼), RIGHT (▶) keys.
Press (OK) - "Menu advanced" appears on the display

UP LOAD FIRMWARE

Allows you to transfer the firmware from 1 fixture to all the connected fixtures.

1) Press (OK) , a confirmation message appears on the display.
2) Select YES to start the firmware loading or NO to keep the current setting and return to the top menu level

SETUP MODEL

Allows you to change the default model of projector.

1) Press (OK) a confirmation message appears on the display.
2) Select YES to define the model of projector or NO to keep the current setting and return to the top menu level.

CALIBRATION

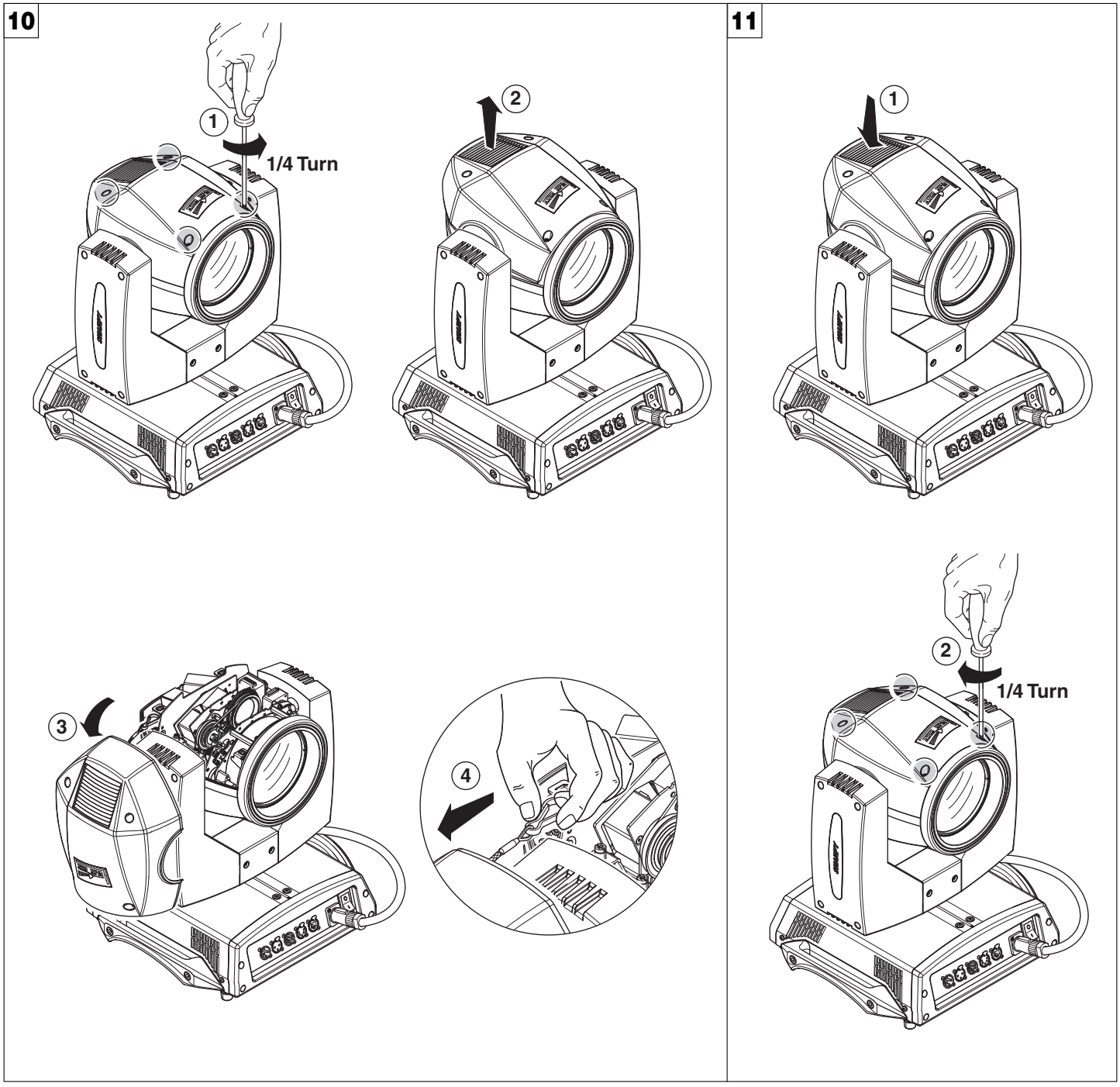
Allows you to adjust effects from the control panel to obtain perfect uniformity between the projectors.

1) Press (OK) - “channels” appears on the display.
2) Using the UP (▲) and DOWN (▼) keys, select the effect you wish to regulate.
3) Press (OK) and use the RIGHT (▶), UP (▲) and DOWN (▼) buttons to make the adjustment by setting a value between 0 and 255.
4) Press (OK) to confirm the selection or LEFT (◀) to keep current settings and return to the top level.

FACTORY DEFAULT

Allows you to restore default values of all channels (128).

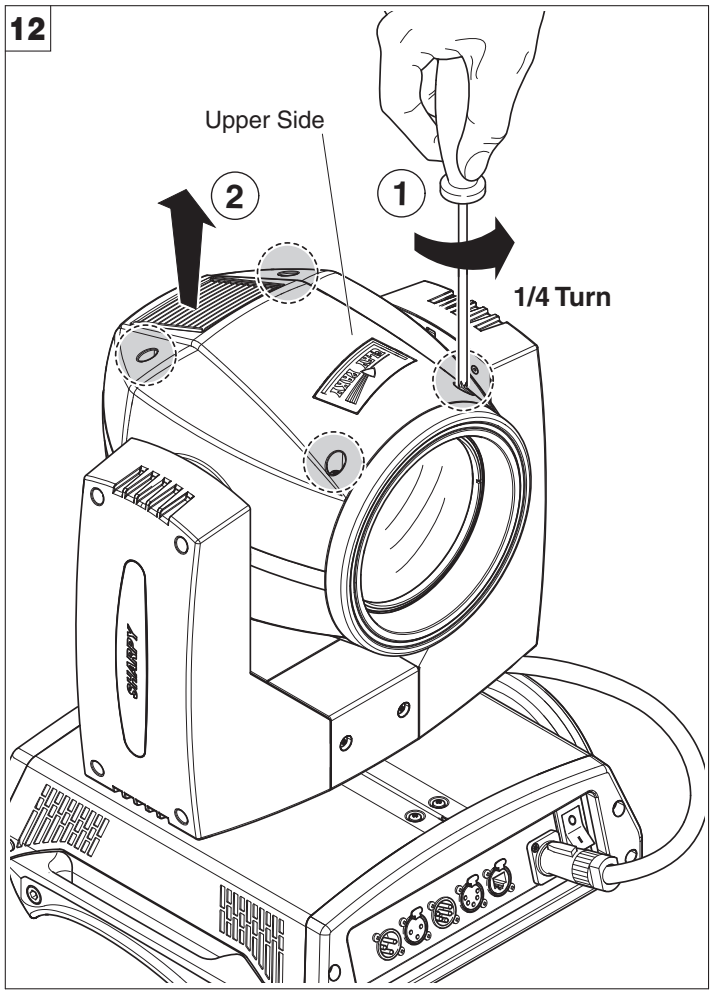
1) Press (OK) – a confirmation message appears on the display (Reset calibration to factory default ?).
2) Select YES to reset calibration to factory default or NO to keep the current setting and return to the top menu level.

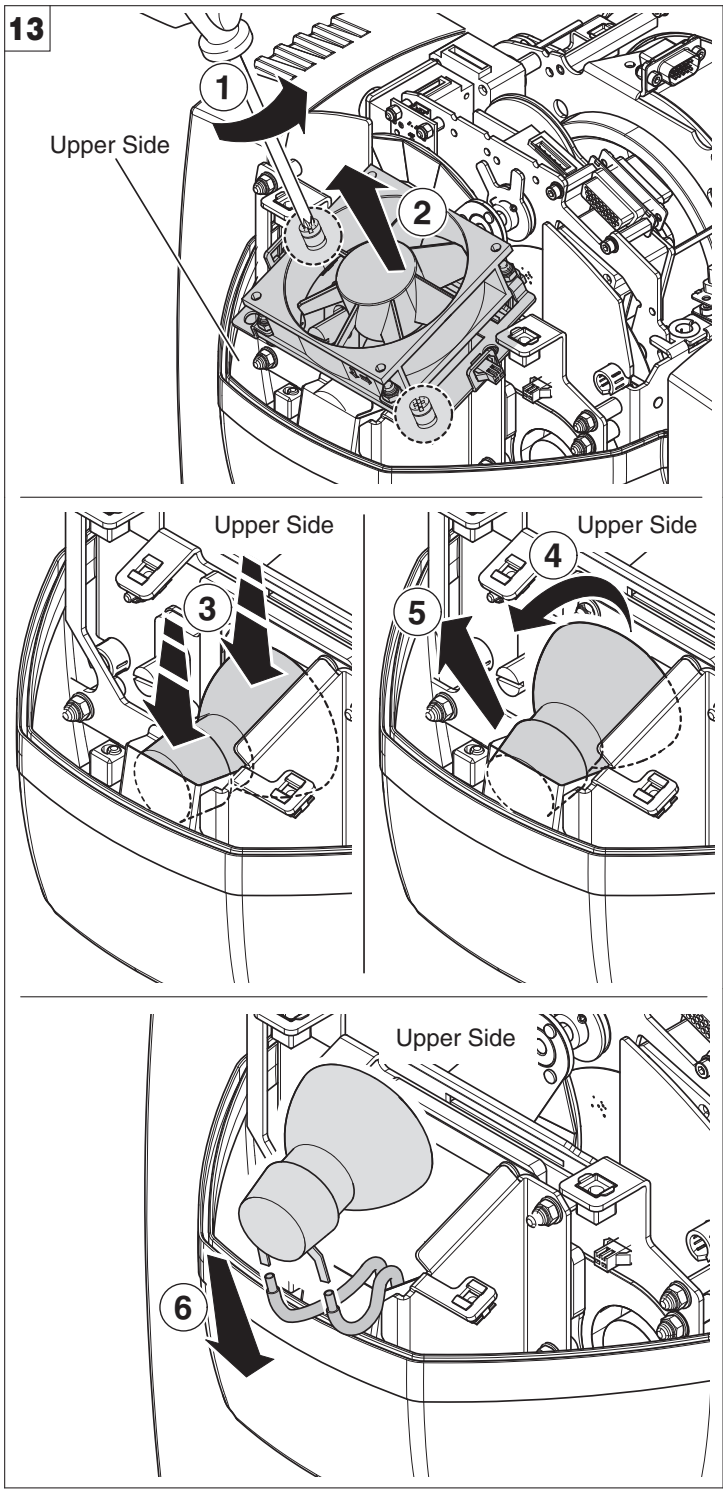


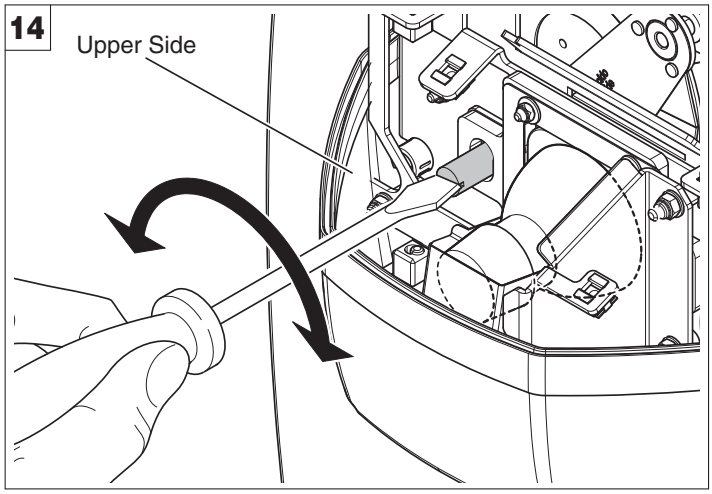
Locking and releasing Pan and Tilt movements - Refer to the instructions in the UNPACKING AND PREPARATION section.
Opening the head covers - Fig. 10.

Closing the head covers - Fig. 11.

Continue →







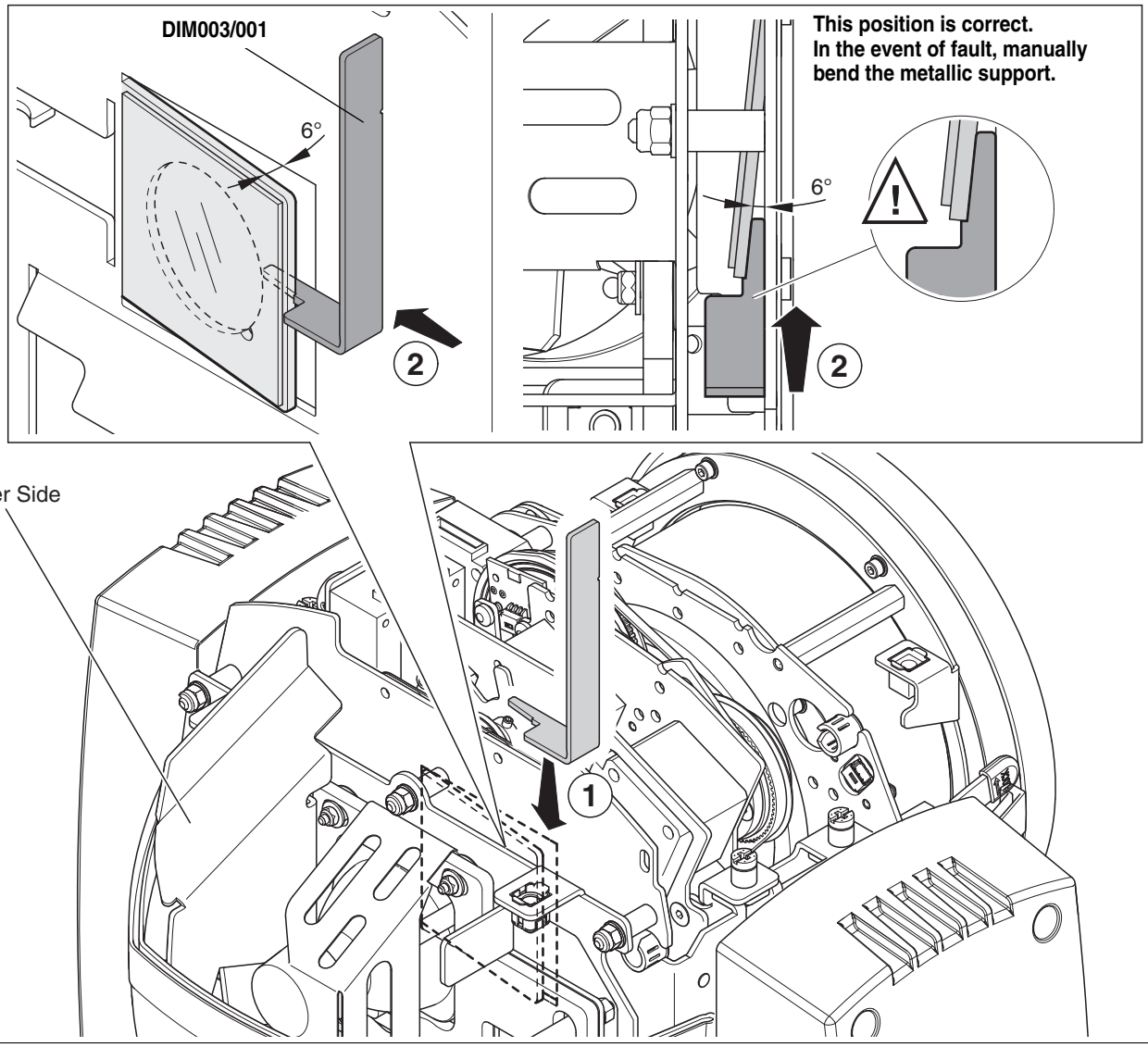
Opening and closing lamp compartment - Fig. 12

Lamp change - Fig 13
Take the new lamp out of its package and insert in the fitting.
WARNING: ***do not touch the lamp's envelope with bare hands. Should this happen, clean the bulb with a cloth soaked in alcohol and dry it with a clean, dry cloth.***

Lamp regulation - Fig. 14
To centre the lamp, turn the adjusting screw as shown in the figure.
WARNING: ***The lamp must be adjusted with the projector switched off. After adjusting, close the effects covers, switch on the projector and check that the adjustment has been correctly made. If necessary, switch off the projector, remove the effects covers and repeat lamp adjustment.***
NOTE: To adjust the lamp vertically (with regard to the Y axis) after having replaced it, it may be necessary to operate the **Calibration** in the **Menu Advanced** on the **Fixed Gobo Wheel channel**.

CAUTION:
Fast lamp ON-OFF cycles (for example 10 minutes ON / 10 minutes OFF) will reduce the lamp life.

15

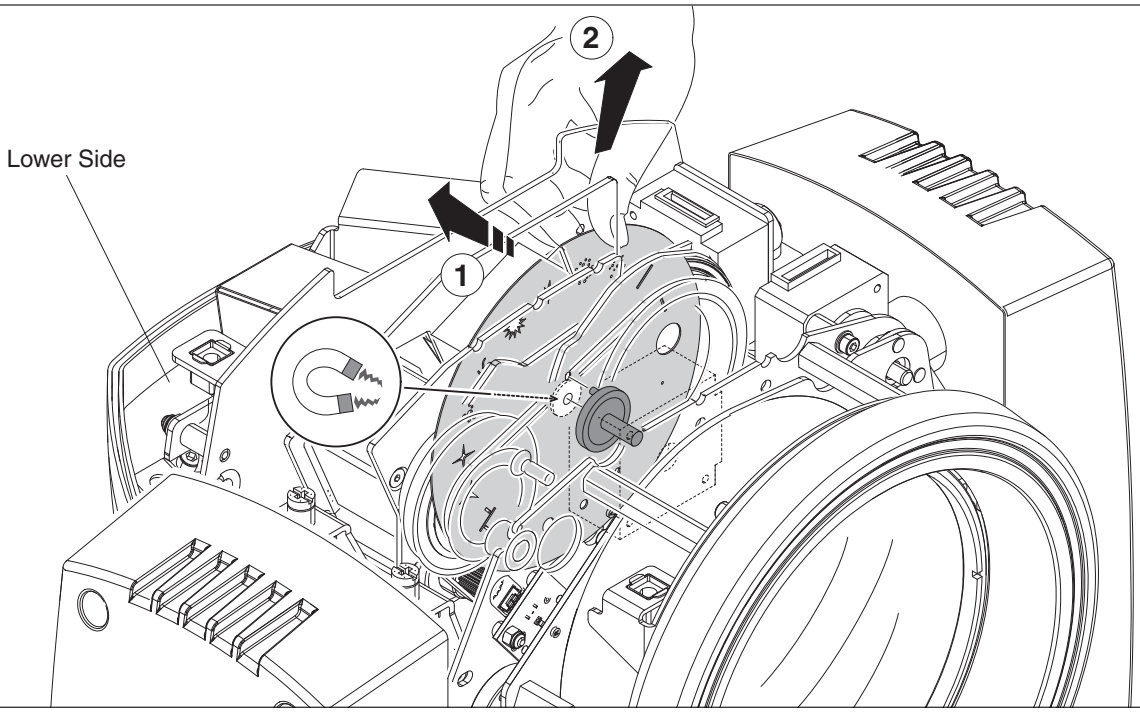


Anti IR/UV filter support template - Fig. 15

WARNING:

During maintenance and lamp replacement, we recommend you pay close attention to correct anti IR/UV filter support tilt. Incorrect tilt compromises lamp performance.

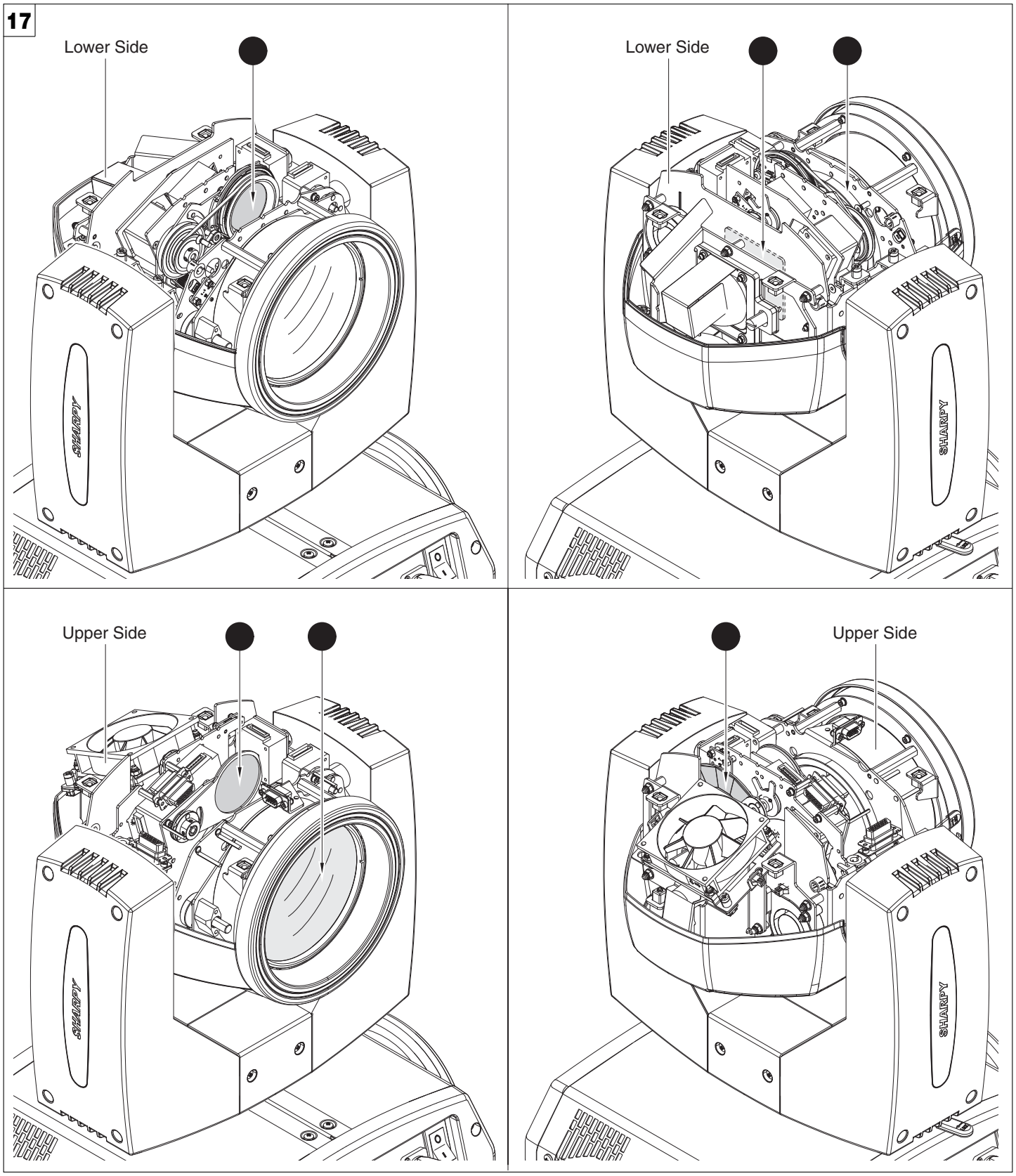
16



Replacing fixed gobos wheel - Fig. 16

WARNING: Before using personalised gobos wheel contact Clay Paky.

Continue →



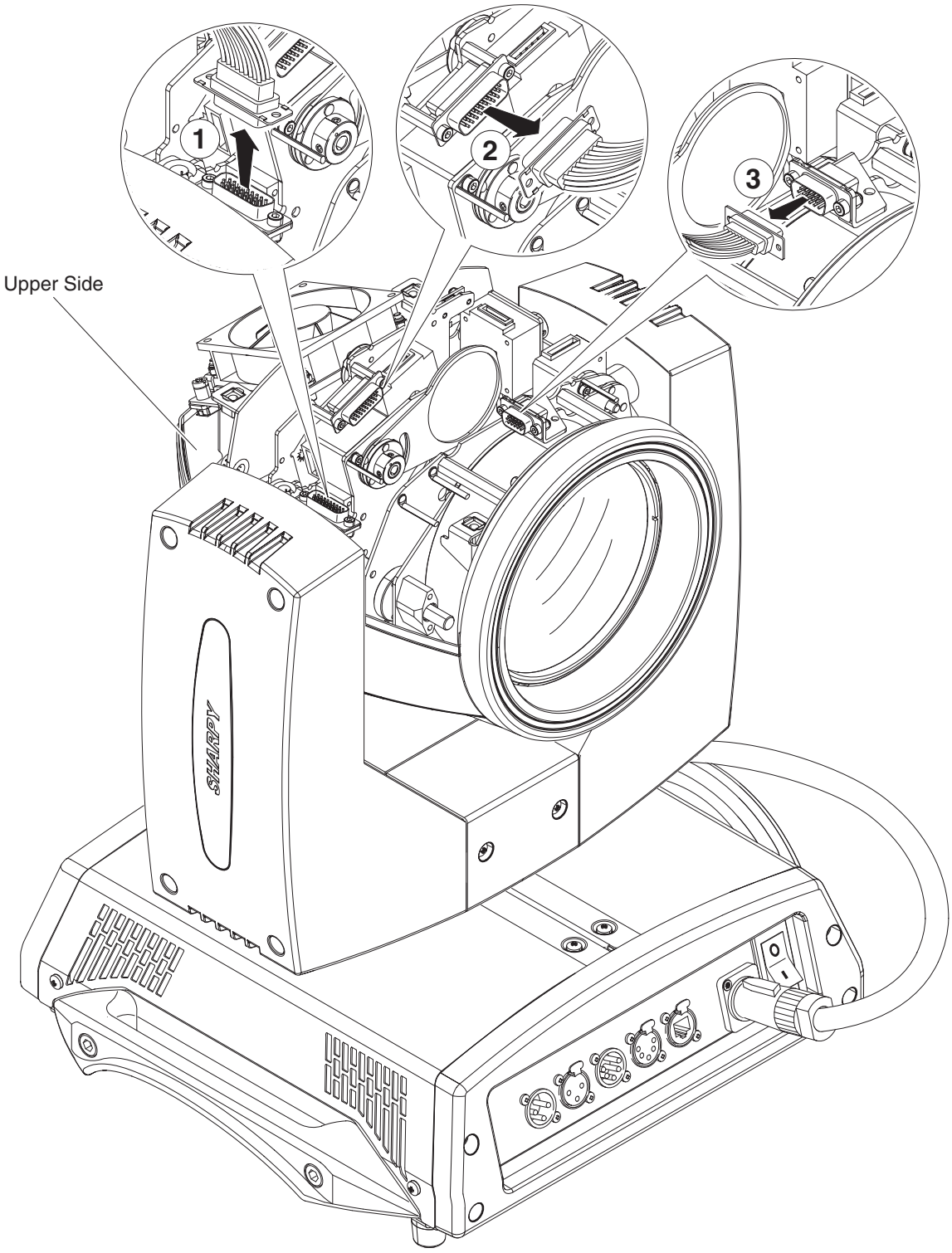
Periodical cleaning - Fig. 17

To ensure optimal operation and performance for a long time it is essential to periodically clean the parts subject to dust and grease deposits. The frequency with which the following operations are to be carried out depends on various factors, such as the amount of the effects and the quality of the working environment (air humidity, presence of dust, salinity, etc.).

Use a soft cloth dampened with any detergent liquid for cleaning glass to remove the dirt from the reflectors and filters. It is recommended that the projector undergoes an annual service by a qualified technician for special maintenance involving at least the following operations:

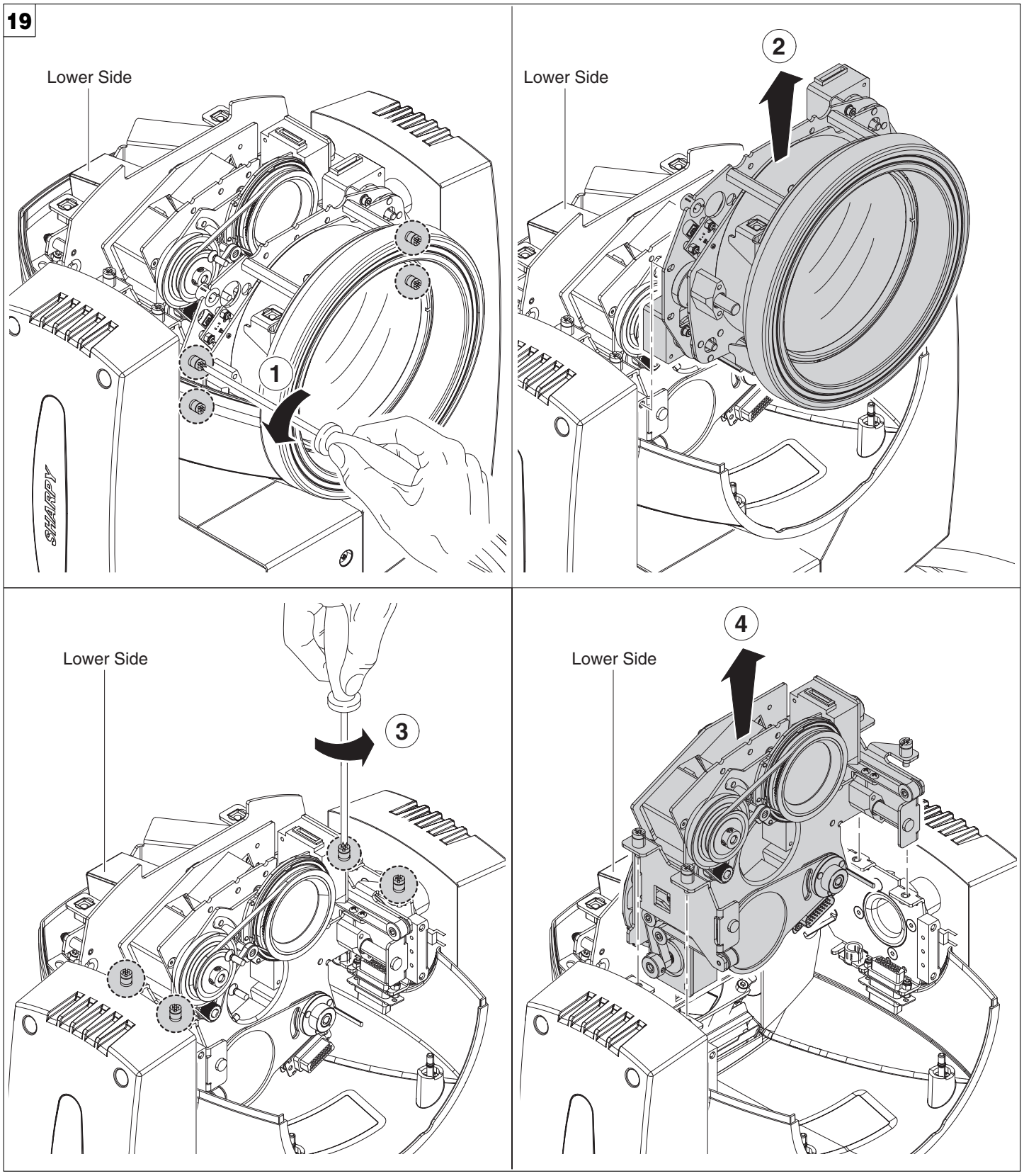
- General cleaning of internal parts.
- Restoring lubrication of all parts subject to friction, using lubricants specifically supplied by Clay Paky.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.

18

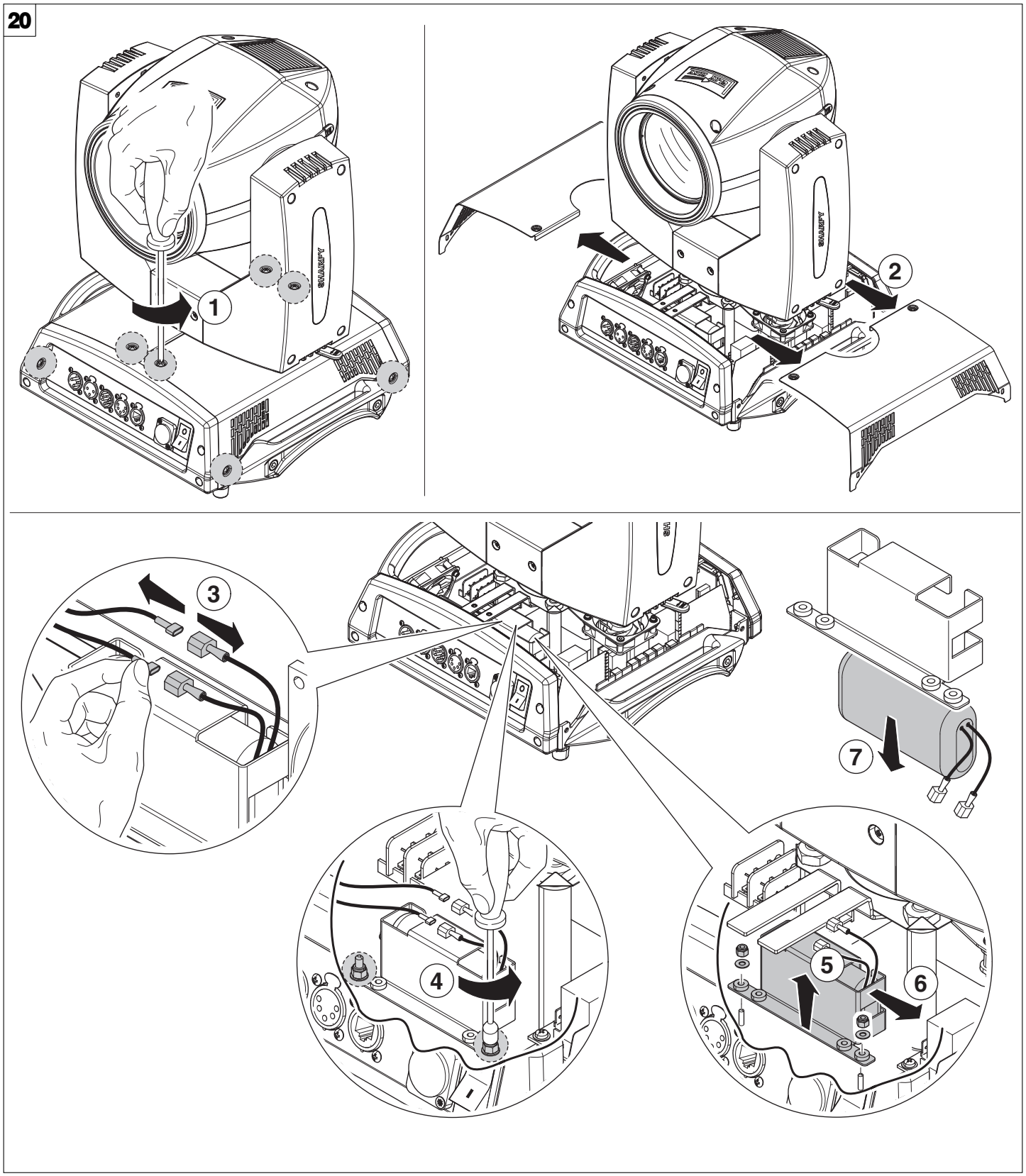


Extraction of the effect modules: Preliminary operations - Fig. 18

Continue →



Extraction of the effect modules - Fig. 19
IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged.
Insertion of the effect modules: Repeat the operations indicated in Fig. 17 and 18 in reverse order.

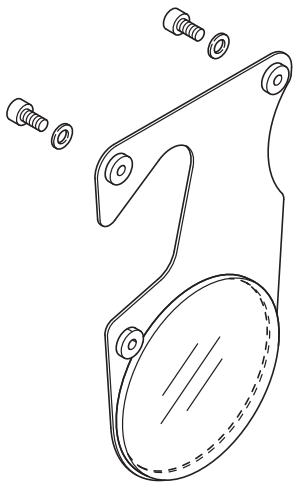


Battery removal - Fig. 20

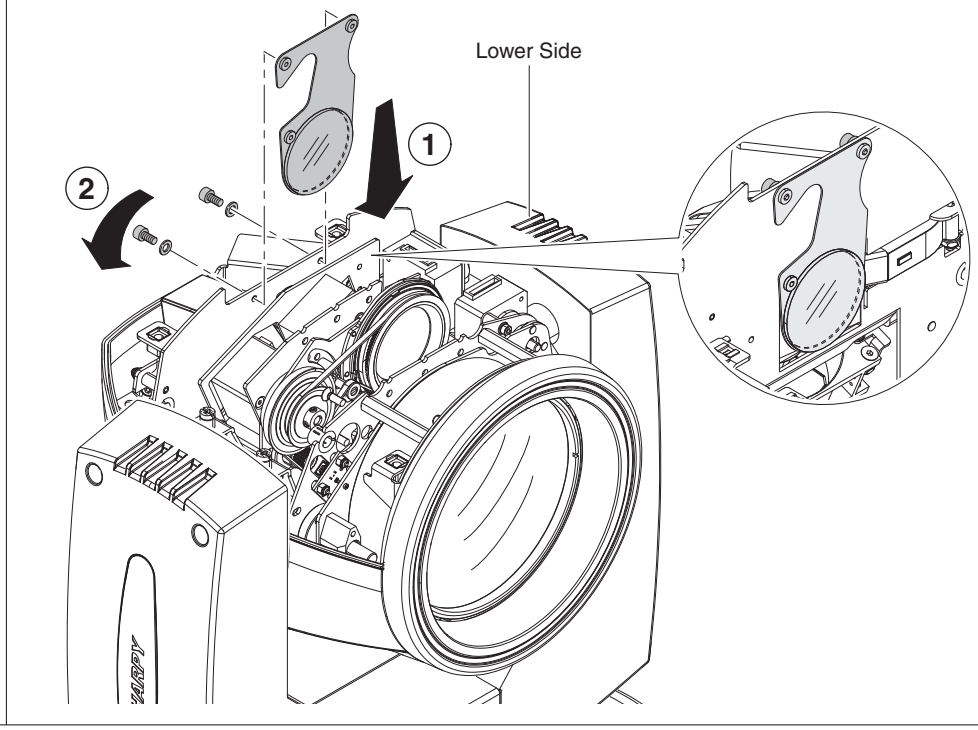
LiFePO4
Pb

This product contains a rechargeable lead-acid or lithium iron tetraphosphate battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

21



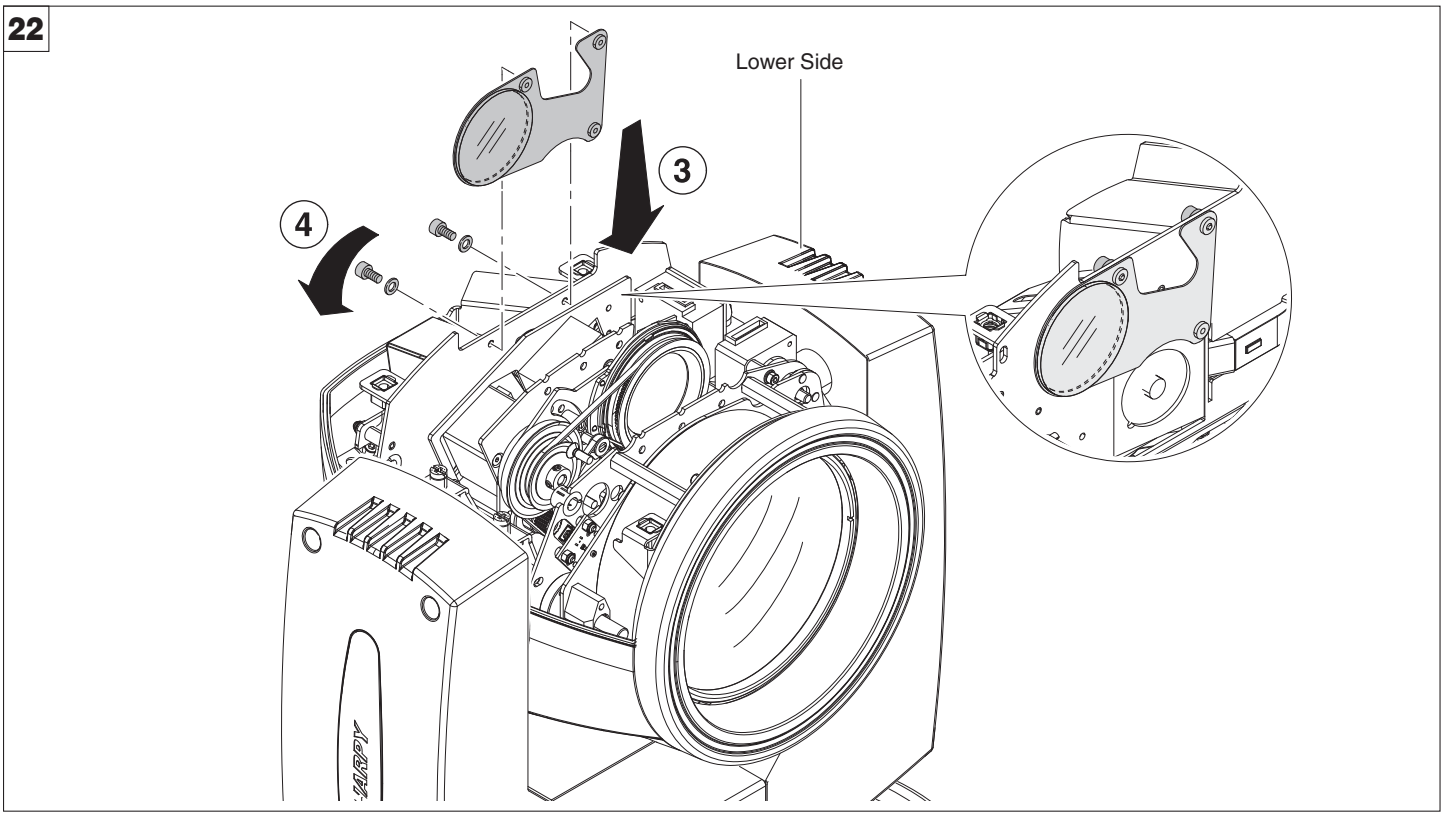
C61190



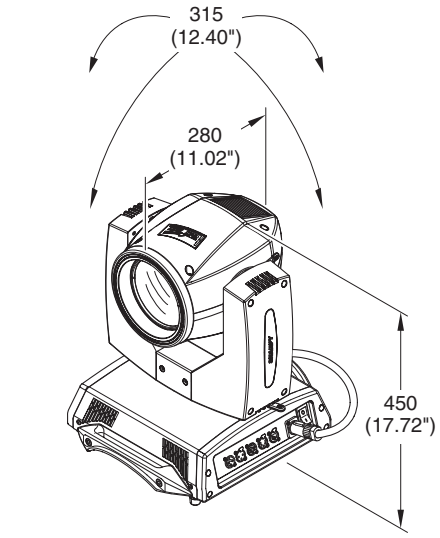
Heat screen filter - Fig. 21

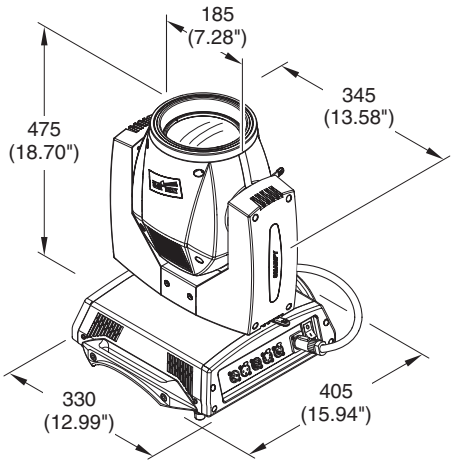
An optional filter kit is also available when the SHARPY projector is used in environments that do not meet the minimum allowed distance of **12 metres** from illuminated objects; when this kit is assembled, the projector can be used at a minimum distance of **8 metres** from illuminated objects.

22



C61190 accessory can be placed inside the projector when not in use - Fig. 22





TECHNICAL INFORMATION

Power supplies available
115/230V 50/60Hz

Input power:
350VA a 230V 50Hz.

Total output
Max 8000 lumens

Lamp:
Lamp system with a short arc burner in a reflector
Philips MSD Platinum 5R (L10103)
- Output Lamp power: 189W
- Colour temperature 8000 K
- Luminous flux 7950lm
- Average life 2000 h
- Any working position

Osram Sirius HRI 190+ (LAM002)
- Output Lamp power: 190W
- Colour temperature 8200 K
- Luminous flux 8100lm
- Average life 3000h
- Any working position

Motors:
13 stepper motors, operating with microsteps, totally microprocessor controlled.

Channels:
Max 20 control channels.

Inputs:
DMX 512
Ethernet

Movable body:
- Movement by means of two stepper motors, controlled by microprocessor.
- Automatic repositioning of PAN and TILT after accidental movement not controlled by control unit.
- Travel:
  - PAN = 540°
  - TILT = 252°
- Maximum speeds:
  - PAN = 2.45 sec
  - TILT = 1.30 sec
- Resolution:
  - PAN = 2.11°
  - PAN FINE = 0.008°
  - TILT = 0.98°
  - TILT FINE = 0.004°
- Accuracy:
  - Resolution ± 0,15° (Range 0,3°)

IP20 protection rating:
- Protected against the entry of solid bodies larger than 12mm (0.47").
- No protection against the entry of liquids.

CE Marking:
Complies with the following European Directives
- 2006/95/EC (LVD)
- 2004/108/EC (EMC)
- 2011/65/EU (RoHS).

Safety Devices:
- Bipolar circuit breaker with thermal protection.
- Automatic break in power supply in case of overheating or failed operation of cooling system.

Cooling:
Forced ventilation with axial fans.

Body:
- Aluminium structure with die-cast plastic cover.
- Two side handles for transportation.
- Device locking PAN and TILT mechanisms for transportation and maintenance.

Working position
Functioning in any position.

Weights:
about 19 Kg (41lbs 13ozs).

CAUSE AND SOLUTION OF PROBLEMS

THE PROJECTOR WILL NOT SWITCH ON	ELECTRONICS NON-OPERATIONAL	DEFECTIVE PROJECTION	REDUCED LUMINOSITY	***POSSIBLE CAUSES***	***CHECKS AND REMEDIES***
●				No mains supply.	Check the power supply voltage.
●			●	Lamp exhausted or defective.	Replace the lamp. (See instructions).
	●			Signal transmission cable faulty or disconnected.	Replace the cables.
	●			Incorrect addressing.	Check addresses (see instructions).
	●			Fault in the electronic circuits.	Call an authorised technician.
		●		Lenses or reflector broken	Call an authorised technician.
		●	●	Dust or grease deposited.	Clean (see instructions).

CHANNEL FUNCTION

SHARPY

NB: To prevent accidental breakage of the effects, which could collide with each other during transport, before switching the projector OFF check that all the projector Channels have been excluded (DMX level = 0 bit).

CHANNEL	CHANNEL MODE	
	STANDARD	VECTOR
1	COLOUR WHEEL	COLOUR WHEEL
2	STOP / STROBE	STOP / STROBE
3	DIMMER	DIMMER
4	STATIC GOBO CHANGE	STATIC GOBO CHANGE
5	PRISM INSERTION	PRISM INSERTION
6	PRISM ROTATION	PRISM ROTATION
7	EFFECTS MOVEMENT	EFFECTS MOVEMENT
8	FROST	FROST
9	FOCUS	FOCUS
10	PAN	PAN
11	PAN FINE	PAN FINE
12	TILT	TILT
13	TILT FINE	TILT FINE
14	FUNCTION	FUNCTION
15	RESET	RESET
16	LAMP CONTROL (with Option "Lamp Dmx" ON)	LAMP CONTROL (with Option "Lamp Dmx" ON)
17		PAN - TILT TIME
18		COLOUR TIME
19		BEAM TIME
20		GOBO TIME

NOTE: On conclusion of resetting in case of absence of DMX signal, Pan & Tilt move to the "Home" position (Pan 128 bit - Tilt 128 bit) all the others channels stay at 0 bit.

• COLOUR WHEEL - channel 1

BIT	EFFECT
255	FAST ROTATION (160 rpm)
128	SLOW ROTATION (0.2 rpm)
124	BLUE + WHITE
120	BLUE
116	CTB 8000 + BLUE
111	CTB 8000
107	CTO 190 + CTB 8000
103	CTO 190
99	CTO 260 + CTO 190
94	CTO 260
90	CYAN + CTO 260
86	CYAN
82	MAGENTA + CYAN
77	MAGENTA
73	YELLOW + MAGENTA
69	YELLOW
64	PINK + YELLOW
60	PINK
56	LAVENDER + PINK
52	LAVENDER
47	LIGHT GREEN + LAVENDER
43	LIGHT GREEN
39	GREEN + LIGHT GREEN
35	GREEN
30	AQUAMARINE + GREEN
26	AQUAMARINE
22	ORANGE + AQUAMARINE
18	ORANGE
13	RED + ORANGE
9	RED
5	WHITE + RED
0	WHITE

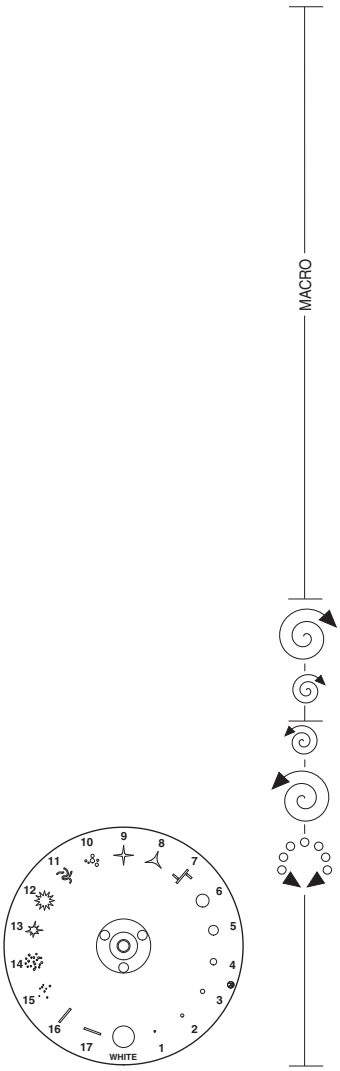
• STOP / STROBE - channel 2

BIT	EFFECT
252 - 255	OPEN
239 - 251	RANDOM FAST STROBE
226 - 238	RANDOM MEDIUM STROBE
213 - 225	RANDOM SLOW STROBE
208 - 212	OPEN
207	FAST PULSATION (360 bpm)
108	SLOW PULSATION (30 bpm)
104 - 107	OPEN
103	FAST STROBE (12 flash/sec)
4	SLOW STROBE (1 flash/sec)
0 - 3	CLOSED

• DIMMER - channel 3

BIT	EFFECT
255	
	0%-100%: 0.02 sec
0	

• STATIC GOBO CHANGE - channel 4



BIT	EFFECT
255	GOBO 16 SHAKE FAST SPEED (600 bpm)
250	GOBO 16 SHAKE, SLOW SPEED (24 bpm)
249	GOBO 15 SHAKE FAST SPEED
244	GOBO 15 SHAKE, SLOW SPEED
243	GOBO 14 SHAKE FAST SPEED
237	GOBO 14 SHAKE, SLOW SPEED
236	GOBO 13 SHAKE FAST SPEED
231	GOBO 13 SHAKE, SLOW SPEED
230	GOBO 12 SHAKE FAST SPEED
224	GOBO 12 SHAKE, SLOW SPEED
223	GOBO 11 SHAKE FAST SPEED
218	GOBO 11 SHAKE, SLOW SPEED
217	GOBO 10 SHAKE FAST SPEED
212	GOBO 10 SHAKE, SLOW SPEED
211	GOBO 9 SHAKE FAST SPEED
205	GOBO 9 SHAKE, SLOW SPEED
204	GOBO 8 SHAKE FAST SPEED
199	GOBO 8 SHAKE, SLOW SPEED
198	GOBO 7 SHAKE FAST SPEED
192	GOBO 7 SHAKE, SLOW SPEED
191	GOBO 6 SHAKE FAST SPEED
186	GOBO 6 SHAKE, SLOW SPEED
185	GOBO 5 SHAKE FAST SPEED
180	GOBO 5 SHAKE, SLOW SPEED
179	GOBO 4 SHAKE FAST SPEED
173	GOBO 4 SHAKE, SLOW SPEED
172	GOBO 3 SHAKE FAST SPEED
167	GOBO 3 SHAKE, SLOW SPEED
166	GOBO 2 SHAKE FAST SPEED
160	GOBO 2 SHAKE, SLOW SPEED
159	FAST ROTATION (60 rpm)
118	SLOW ROTATION (5 rpm)
114-117	STOP
113	SLOW ROTATION (5 rpm)
72	FAST ROTATION (60 rpm)
68-71	GOBO 17
64-67	GOBO 16
60-63	GOBO 15
56-59	GOBO 14
52-55	GOBO 13
48-51	GOBO 12
44-47	GOBO 11
40-43	GOBO 10
36-39	GOBO 9
32-35	GOBO 8
28-31	GOBO 7
24-27	GOBO 6
20-23	GOBO 5
16-19	GOBO 4
12-15	GOBO 3
8-11	GOBO 2
4-7	GOBO 1
0-3	WHITE

• PRISM INSERTION - channel 5

BIT	EFFECT
255	
	PRISM INSERTED 0%-100%: 0.36 sec
128	
127	
	PRISM EXCLUDED
0	

• PRISM ROTATION - channel 6

BIT	EFFECT
255	FAST ROTATION (43 rpm)
193	SLOW ROTATION (1.1 rph)
191 - 192	STOP
190	SLOW ROTATION (1.1 rph)
128	FAST ROTATION (43 rpm)
127	POSITION 540°
105	POSITION 450°
84	POSITION 360°
63	POSITION 270°
42	POSITION 180°
21	POSITION 90°
0	POSITION 0°

Continue ➔

• EFFECTS MOVEMENT - channel 7

BIT	EFFECT
255	
	0%-100%: 0.33 sec
0	

• FROST - channel 8

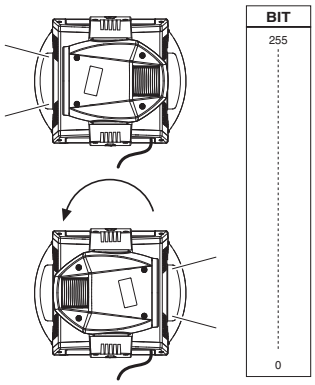
BIT	EFFECT
255	FROST INSERTED
	0%-100%: 0.12 sec
0	FROST EXCLUDED

• FOCUS - channel 9

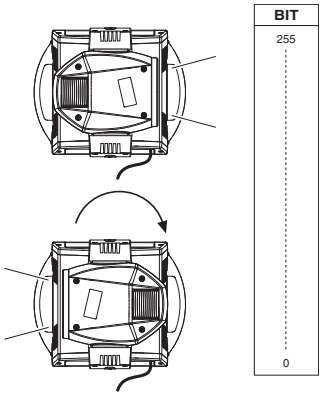
BIT	EFFECT
255	NEAR
	0%-100%: 1.11 sec
0	DISTANT

• PAN - channel 10

Operation with option InvertPan ⇕ Off
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)

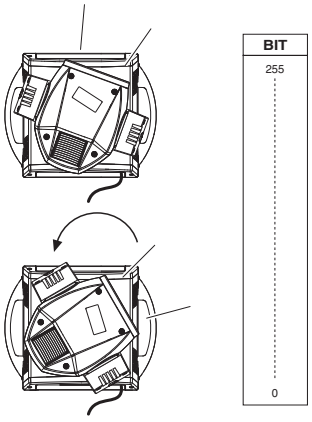


Operation with option InvertPan ⇕ On
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)

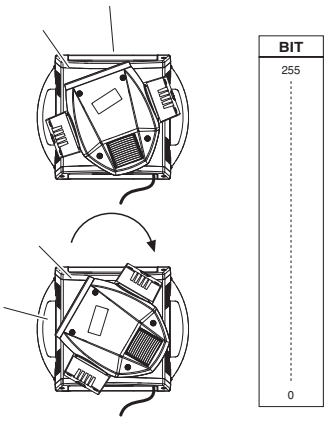


• PAN FINE - channel 11

Operation with option InvertPan ⇕ Off
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)

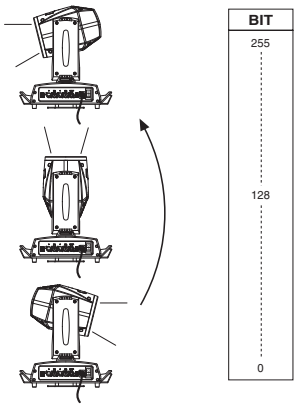


Operation with option InvertPan ⇕ On
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)

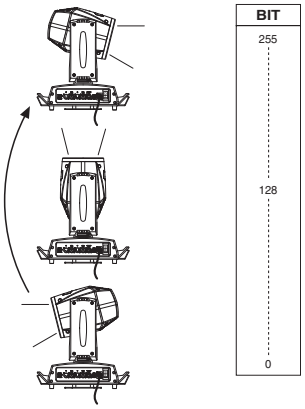


• TILT - channel 12

Operation with option Invert Tilt ⇳ Off
(Pan conventionally represented at 0% and option Invert Pan ⇳ Off)

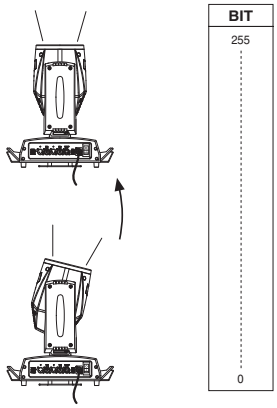


Operation with option Invert Tilt ⇳ On
(Pan conventionally represented at 0% and option Invert Pan ⇳ Off)

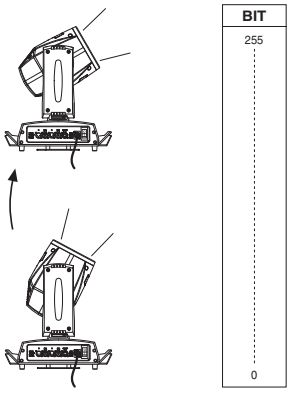


• TILT FINE - channel 13

Operation with option Invert Tilt ⇳ Off
(Pan conventionally represented at 0% and option Invert Pan ⇳ Off)



Operation with option Invert Tilt ⇳ On
(Pan conventionally represented at 0% and option Invert Pan ⇳ Off)



• FUNCTION - channel: 14

BIT	EFFECT	
255		
	UNUSED RANGE	
63		
51-62	LINEAR (Default)	DIMMER CURVE FUNCTION
38-50	CONVENTIONAL	
25-37	NORMAL	PAN-TILT FUNCTION
12-24	FAST (Default)	
0-11	UNUSED RANGE	

The functions are actived passing through the unused range and staying 5 seconds in necessary level.

• RESET - channel: 15

BIT	EFFECT
255	COMPLETE RESET
	Complete reset is activated passing throug the unused range and staying 5 seconds in complete reset levels.
128	COMPLETE RESET
127	PAN / TILT RESET
	Pan / Tilt reset is activated passing throug the unused range and staying 5 seconds in Pan / Tilt reset levels.
77	PAN / TILT RESET
76	EFFECTS RESET
	Effects reset is activated passing throug the unused range and staying 5 seconds in Effects reset levels.
26	EFFECTS RESET
25	UNUSED RANGE
0	

The functions are actived passing through the unused range and staying 5 seconds in necessary level.

• LAMP CONTROL (only with option LAMP DMX On) - channel: 16

IMPORTANT: SHARPY is not provided with hot restrike ignition

BIT	EFFECT
255	LAMP ON
	Lamp switch-on passing through the unused range and staying 5 sec in Lamp ON levels.
101	LAMP ON
100	LAMP OFF
	Lamp switch off passing throug the unused range and staying 5 s in Lamp OFF levels.
26	LAMP OFF
25	UNUSED RANGE
0	

The functions are actived passing through the unused range and staying 5 seconds in necessary level.

Continue ➔

TIMING CHANNELS

	Timing Channel	Channel function
17	Pan - Tilt time	Pan - Tilt - (Pan fine - Tilt fine)
18	Colour time	Colour wheel
19	Beam time	Dimmer - Frost - Prism
20	Gobo time	Static Gobo

TIME TABLE

BIT	Seconds
0	Full
1	0.2
2	0.4
3	0.6
4	0.8
5	1
6	1.2
7	1.4
8	1.6
9	1.8
10	2
11	2.2
12	2.4
13	2.6
14	2.8
15	3
16	3.2
17	3.4
18	3.6
19	3.8
20	4
21	4.2
22	4.4
23	4.6
24	4.8
25	5
26	5.2
27	5.4
28	5.6
29	5.8
30	6
31	6.2
32	6.4
33	6.6
34	6.8
35	7
36	7.2
37	7.4
38	7.6
39	7.8
40	8
41	8.2
42	8.4

BIT	Seconds
43	8.6
44	8.8
45	9
46	9.2
47	9.4
48	9.6
49	9.8
50	10
51	10.2
52	10.4
53	10.6
54	11
55	
56	12
57	
58	13
59	
60	14
61	
62	
63	15
64	
65	16
66	
67	
68	17
69	
70	18
71	
72	
73	19
74	
75	20
76	
77	
78	21
79	
80	
81	22
82	
83	23
84	
85	

BIT	Seconds
86	24
87	
88	25
89	
90	
91	26
92	
93	27
94	
95	
96	28
97	
98	29
99	
100	
101	30
102	
103	
104	31
105	
106	32
107	
108	
109	33
110	
111	34
112	
113	
114	35
115	
116	36
117	
118	
119	37
120	
121	38
122	
123	
124	39
125	
126	
127	40
128	

BIT	Seconds
129	41
130	
131	
132	42
133	
134	43
135	
136	
137	44
138	
139	45
140	
141	
142	46
143	
144	47
145	
146	
147	48
148	
149	49
150	
151	
152	50
153	
154	
155	51
156	
157	52
158	
159	
160	53
161	
162	54
163	
164	
165	55
166	
167	56
168	
169	
170	57
171	

BIT	Seconds
172	58
173	
174	
175	59
176	
177	
178	60
179	
180	65
181	
182	
183	70
184	
185	75
186	
187	
188	80
189	
190	85
191	
192	
193	90
194	
195	95
196	
197	
198	100
199	
200	110
201	
202	
203	120
204	
205	
206	130
207	
208	140
209	
210	
211	150
212	
213	160
214	
215	

BIT	Seconds
216	170
217	
218	180
219	
220	
221	190
222	
223	200
224	
225	
226	210
227	
228	
229	220
230	
231	230
232	
233	
234	240
235	
236	250
237	
238	
239	260
240	
241	270
242	
243	
244	280
245	
246	290
247	
248	
249	300
250	
251	310
252	
253	
254	
255	Follow cue Data

CLAY PAKY S.p.A. - Via Pastrengo, 3/b - 24068 Seriate (BG) Italy - Tel. +39-035-654311 - Fax +39-035-301876 - **www.claypaky.it**

DIRTY RIGGER™
GLOVES & ACCESSORIES

See our catalogue for details of these and more Dirty Rigger products

---

Gradav Hire and Sales Ltd

The Power House
Elstree Film Studios
Shenley Road
Borehamwood
WD6 1JG

Phone 020 8324 2100 FAX 020 8324 2933
email office@gradav.co.uk Web www.gradav.co.uk